

July 2, 2020

Dear Affiliate Partner:

To assist you in complying with the reporting requirements for children's television and the requirement that stations air "core" educational and informational children's programming, we are providing you with episode-specific descriptions ("**The More You Know**" educational and informational programming block) as set forth in the attached Quarterly Children's Programming Report for the 2nd quarter of 2020. Please note that we have not included the specific dates and times for each of the programs as that information may be station-specific.

This report is divided into the following categories:

1. Educational Objectives and Show Summaries: **The More You Know** both for programs broadcast in the 2nd quarter of 2020 and those planned for the 3rd quarter of 2020.
2. Core Programming: Regularly scheduled programming furnished by the NBC Network that is specifically designed to serve the educational and informational needs of children ages 13-16. Each of these programs is identified on-air as educational and informational with the "E/I" icon and is similarly identified to the national listing services. Please note that the target age range for **The More You Know** programming is identified as 13-16 years old.
3. Other Programming: Programming furnished by the NBC Network that contributes to the educational and informational needs of children 16 and under, but is not specifically designed to meet the educational and informational needs of children.
4. Public service announcements targeted to children 16 and under.
5. Non-broadcast efforts that enhance the educational and informational value of NBC Network programming to children.

The regularly-scheduled children's programming and promotional content furnished to you by the NBC Network during the 2nd quarter of 2020 complied with the commercial limits of the Children's Television Act, and 47 C.F.R. §§ 73.670(a)-(d), provided that you broadcast and distributed such programming as furnished to you by NBC, and did not add any promotional or advertising content thereto other than as directed by NBC via weekly postings on APT.

Despite the recent revisions to the Children's Television Programming Rules we will continue to provide this report on a quarterly basis. Please consult your legal counsel with any questions.

If you have any questions about this report, please feel free to call us.

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Note Regarding FCC's Video Description Rules: The programs supplied in **The More You Know** block are video-described to provide a better viewing experience for blind or visually impaired children.

2nd QUARTER 2020
EDUCATIONAL OBJECTIVES and SHOW SUMMARIES
[AGE TARGET 13-16]
April 1, 2020 – June 30, 2020

In the 2nd Quarter of 2020, NBC continued airing The More You Know Educational/Informational programming block, designed for older adolescent children, ages 13-16. Each of the six shows has a hosted format, featuring non-fiction, informative programming that extends NBC's iconic The More You Know brand to Saturday mornings. The audience views inspiring stories about the environment, social change, health and wellness, and community engagement. New series *Roots Less Traveled* replaced *A New Leaf* at the beginning of the 2nd Quarter. There continued to be two half hours of *Earth Odyssey with Dylan Dreyer*.

EARTH ODYSSEY WITH DYLAN DREYER

Earth Odyssey with Dylan Dreyer is a live action, half-hour television program designed to meet the educational and informational needs of children aged 13-16. Earth Odyssey with Dylan Dreyer will take viewers on an incredible journey to the wildest points on the globe, uncovering the connection between the environment, the wildlife, and the human beings that surround them. Hosted by Meteorologist Dylan Dreyer, Earth Odyssey with Dylan Dreyer will reveal a new destination each week, ranging from Africa, Indochina, the Middle East, and many untamed islands around the world. Audiences will come face-to-face with fascinating native animals, some cute and some dangerous, while educating teen viewers with amazing facts about nature and wildlife. Earth Odyssey with Dylan Dreyer gives audiences a captivating look at the symbiosis between all living things, in the most larger-than-life places on Earth.

CONSUMER 101

Consumer 101 is a live action, half-hour television program designed to meet the educational and informational needs of children aged 13-16. Hosted by Jack Rico with the help of experts and scientists from the Consumer Reports labs and testing facilities, Consumer 101 will give viewers a behind-the-scenes look into the science used to test every kind of product— from the obscure, to the fascinating, to the everyday. Each week, audiences will discover more about the surprising intricacy of product testing, learn more efficient ways to get the most out of everyday items, as well as catch a glimpse into a unique career path in the fields of science and technology. Consumer 101 is an empowering series aimed at giving teens the tools they need to make smarter choices as consumers, exploring the how, where, when, and why we spend our resources so we can all make educated decisions when it counts.

VETS SAVING PETS

Vets Saving Pets is a live action, half-hour television program designed to meet the educational and informational needs of children aged 13-16. Vets Saving Pets examines the interpersonal stories of veterinary professionals working to save the lives of animals in need of urgent medical care. Vets Saving

Pets takes place at the Emergency Veterinary Trauma Center in Toronto, one of the busiest veterinary facilities in Canada. Each week, viewers will be exposed to new emergency cases that will teach audiences about a wide array of specialties within veterinary medicine such as critical care, oncology, cardiology, neurology, anesthesiology, dermatology, dentistry, and surgery. Audiences will witness first-hand the dedication and determination of these veterinary specialists as they work tirelessly to save their animal patients.

ROOTS LESS TRAVELED

Roots Less Traveled is a live action, half-hour television program designed to meet the educational and informational needs of children aged 13-16. Roots Less Traveled follows two family members, often from different generations, as they gain a newfound understanding and respect for each other on their quest to learn more about their family history. Each week on Roots Less Traveled, a new pair will set out on an adventure to solve a mystery in their family tree. From rumors of a relative who sailed on the Titanic, to stories of homesteaders forging a new path for future generations, our duo discovers the truth behind the tales that have been passed down in their family, while our viewers learn the personal stories behind notable historical moments. Viewers will be taken on a literal journey to unique places around the globe, learning more about the culture and history of these significant locations and events that happened there. Throughout this experience, we will witness these family members grow closer as they gain wisdom not only about themselves, but also about how their past has helped shape their present.

THE CHAMPION WITHIN

The Champion Within is a live action, half-hour television program designed to meet the educational and informational needs of children aged 13-16. The Champion Within features the powerful and inspiring stories that exemplify what it really means to be a true champion. Hosted by Lauren Thompson, the series introduces viewers to people who have overcome obstacles while leading transcendent moments from the world of sports. From beating the odds to play the game they love, to giving back to the communities that supported them, the featured athletes will share their own stories and personal triumphs. Viewers will learn the value of good sportsmanship, and the dedication it takes to excel at the highest level. Win or lose, The Champion Within proves that a champion is not only defined by their speed, strength, and agility, but by their grit, resiliency, and heart.

3rd QUARTER 2020
EDUCATIONAL OBJECTIVES and SHOW SUMMARIES
[AGE TARGET 13-16]
July 1, 2020 – September 30, 2020

In the 3rd Quarter of 2020, NBC will continue airing The More You Know Educational/Informational programming block, designed for older adolescent children, ages 13-16. Each of the six shows has a hosted format, featuring non-fiction, informative programming that extends NBC's iconic The More You Know brand to Saturday mornings. The audience views inspiring stories about the environment, social change, health and wellness, and community engagement. There will continue to be two half hours of *Earth Odyssey with Dylan Dreyer*.

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“CORE PROGRAMMING”

**PROGRAMMING FURNISHED BY THE NBC NETWORK THAT IS SPECIFICALLY
DESIGNED TO SERVE THE EDUCATIONAL AND INFORMATIONAL NEEDS OF CHILDREN
16 AND UNDER
[AGE TARGET 13-16]
April 1, 2020 – June 30, 2020**

Airdate: 4/4/2020

Time:

Duration: 30:00

EARTH ODYSSEY WITH DYLAN DREYER

PADDLING THROUGH THE PANTANAL [EDD227]

Today on Earth Odyssey, host Dylan Dreyer leads us on an adventure through the rivers of the Pantanal. Known as the largest wetland in the world, the Pantanal is ten times larger than the Everglades in Florida. Situated in the center of South America, the vast majority of the Pantanal lies in Brazil, while the rest is in Bolivia and Paraguay. First up, we'll follow local fisherman and learn how they rely on the waters of the Pantanal for their survival. We'll discover that the Pantanal is home to an estimated three-hundred and twenty-five species of fish. We'll learn about the unique fishing techniques that have been used by the local villages for centuries. Here we'll also learn about the giant river otter that calls the Pantanal region home. Nearly six feet long and weighing more than sixty-five pounds, it fully merits its name. Unlike most otters, giant river otters live in groups and hunt in packs. Here we'll discover that giant river otters have an average lifespan of roughly twelve years in the wild. Next, we'll learn more about one of the top predators in the Pantanal region, the jaguar. With water to drink, shade from the sun, and a platform from which to spy prey, overgrown riverbanks are the perfect environment for jaguars. We'll discover that jaguars are excellent swimmers and have been seen swimming across the Panama Canal. Finally, we'll learn more about the tufted capuchin monkeys that inhabit this region. We'll discover that these monkeys use the riverside corridors of the Pantanal to spread south to the Amazon. Capuchins are highly social and have been

observed sharing territories with other primate species. We'll learn that tufted capuchins have also been observed using objects, such as rocks, as tools to crack open nuts or fruits.

[Educational Message: The wet landscape and warm climate of the Pantanal creates a hub for an incredible number of diverse fish and mammals. The traditions that are still alive in the Pantanal are central to the survival of the local villages.]

Airdate: 4/4/2020

Time:

Duration: 30:00

EARTH ODYSSEY WITH DYLAN DREYER

HIKING THE HIMALAYAS [EDD228]

Today on Earth Odyssey, host Dylan Dreyer takes us on a journey to the Himalayas, where the extreme landscape doesn't stop the unique diversity that calls this mountain range home. At over sixteen-thousand feet above sea level, among the most treacherous and untamed mountains in the world, certain highly adapted species have made the Himalayas their home. First up, we'll learn about the fascinating bar-headed geese. These geese head south over the Himalayas to the warmer winter-feeding grounds of Northern India. But traveling more than nine-hundred miles in a single day isn't this bird's only claim to fame. Bar-headed geese choose to fly at an altitude few other creatures could barely imagine, including humans. We'll discover that bar-headed geese can fly as high as thirty-thousand feet for brief periods of time. These birds have even been spotted flying over Mt. Everest, the tallest mountain in the world. Next, we'll discover how the Himalayas have shaped the cultures of Southern Asia. Many peaks of the Himalayas are seen as sacred, and religions such as Buddhism have a strong physical presence in the remotest of areas. Prayer flags flapping in the wind break the silence across the numerous mountain passes. For centuries, Buddhist pilgrims have draped these pennants across valleys and places of spiritual practice for the wind to carry their written prayers across the landscape. Here we'll discover that the colors of prayer flags are said to represent Earth's elements of sky, air, fire, water, and earth. Finally, we'll learn more about the Asiatic black bear that calls the Himalayas home. Despite being similar in size to its American relative, a distinctive cream-colored crescent at the center of its chest gives this Himalayan resident its unique identity. We'll discover that the shape of the crescent on its chest gives this species the nickname "moon bear." Although armed with two-inch long curved claws and canine teeth designed for tearing meat, this predator is primarily a vegetarian. Berries, grasses, roots, and the occasional insect make up the majority of its diet.

[Educational Message: The Himalayas is an unbelievable region in our world. From the ancient cultures that are still practiced today, to the animals that thrive in such harsh environments, this mountain range is one of the most fascinating places on Earth.]

Airdate: 4/4/2020

Time:

Duration: 30:00

CONSUMER 101

IF CARS COULD TALK [CNR216]

Host Jack Rico and the experts at the testing labs will give us a deep dive on a test drive, show us how to protect our online accounts from hackers, and teach us how to do laundry like a scientist. First up, we'll join an auto expert for a test drive in the field to find out how cars are tested and evaluated for performance.

Today we'll learn how experts evaluate aspects such as ride comfort, handling, and cabin noise over the course of a day on various terrains. In this test, we discover that road noise and wind noise can significantly increase the cabin noise. We'll learn how experts measure and evaluate which cars perform best in various settings and conditions. Next, we'll meet with an online privacy expert to learn how to tidy up our online accounts. We'll discover that leaving old accounts online and not paying attention to them can put them at risk of being hacked. We'll also find out that the longer you leave these accounts open, the more likely it has been compromised. Additionally, we'll learn that if you use the same password for all of your online accounts, it can put all of your personal information at great risk. We'll get expert advice on the best ways to secure and tidy up your online accounts. Finally, we'll learn how to do your laundry like a scientist. We'll find out that it's always important to separate light and dark colored clothes for each load. We'll learn that different fabrics and textiles can be affected by water and dryer temperature. We'll also discover the incredible science behind static electricity on clothing.

[Educational Message: In this episode we learned the importance of protecting your personal information online. We found out that hackers can find ways to access our accounts if we do not keep them secure. It's always best to maintain strong passwords and awareness of your online presence in order to protect your personal privacy.]

Airdate: 4/4/2020

Time:

Duration: 30:00

VETS SAVING PETS

THE K9'S CANINE [VSP214]

Today on Vets Saving Pets, a cat is brought to the clinic with bladder issues, a Police K-9 arrives with a broken tooth, and a long-time patient has a coughing issue. First up, a long-time canine patient named Rusty arrives at the clinic with a minor coughing issue. Dr. Williams, the clinic's cardiologist, meets with Rusty to find out the cause of Rusty's recent coughing. Rusty has suffered from an arrhythmia, or irregular heartbeat, for several years. Dr. Williams decides to perform an electrocardiogram, or EKG, to determine if Rusty's condition has worsened. Next, a cat named Trigger has been admitted to the emergency clinic with a urinary blockage. Dr. Bryer, the clinic's head emergency veterinarian, suspects that Trigger is suffering from feline lower urinary tract disease, which is preventing the cat from urinating. Here we learn that this disease is a serious condition that can lead to severe heart problems and even sudden death. Dr. Bryer will prescribe Trigger with antibiotics to help aid the cat's recovery. Finally, a Police K-9 named Jax is brought to the clinic with a broken tooth in need of repair. Dr. French, the clinic's veterinary dentist, will examine Jax's mouth to determine the extent of the tooth fracture. After performing X-rays, Dr. French finds that Jax's tooth is severely damaged and may need to be extracted. Following further examination, Dr. French is able to perform a root canal that will allow Jax to continue his job as a Police K-9.

[Educational Message: Education is critical to the success of these veterinary specialists. Working in the veterinary field is a rewarding career path but will require much skill and dedication.]

Airdate: 4/4/2020

Time:

Duration: 30:00

ROOTS LESS TRAVELED

CONNECTING TO JOHN F KENNEDY [RLT101]

Today on Roots Less Traveled, host Faruq Tauheed takes half-siblings Michelle and Rob to Mexico City. Here they will discover that they are related to the Uruchurtus, a very famous Mexican political family. Their journey includes a trip to the ornate National Palace where they learn that their second cousin Ernesto gave the keys to Mexico City to President John F. Kennedy. Here we'll find out that the Zocalo, or Plaza de la Constitucion, was previously the principal ceremonial site in the Aztec city of Tenochtitlan. Michelle and Rob happen to be in Mexico City during Dia de los Muertos, or Day of the Dead, a holiday that honors loved ones who have passed. In preparation for this annual cultural event, they soon learn their third cousin Manual Uruchurtu died on the Titanic, after giving up his seat on a lifeboat to a woman in need. We'll find out that in 1912, over 1,500 passengers perished when the Titanic sank during its maiden voyage. We'll discover that the 2,240 people on board the Titanic are believed to have represented as many as 30 different nationalities.

[Educational Message: Connecting with our past helps us connect to parts of ourselves that we didn't know existed. In this episode, we learned that the Uruchurtu family had a cousin that gave up his lifeboat seat when the ill-fated Titanic began to sink. Michelle and Rob were moved by this selfless act of kindness, inspiring them to show more love and compassion in their own daily lives.]

Airdate: 4/4/2020

Time:

Duration: 30:00

THE CHAMPION WITHIN

PLAYING WITHOUT LIMITS [HOC403]

First, we meet a 60 and over hockey team called the Quincy bald eagles and learn how they returned to their passion for hockey after years of not playing. Next, we hear how Katie Sowers, an assistant coach for the San Francisco 49ers, worked her way to become the second woman in history to hold a full-time NFL coaching position. In 2015, Jen Welter was hired by the Arizona Cardinals and became the first female to hold a coaching position in the NFL. Finally, we hear the inspiring story of Shane Caldwell and learn how he didn't let cancer control his life by always following his heart to pursue his passion for golf-- including traveling home from St. Andrews 18 hours prior to his first round of chemotherapy. Golf has been played at St. Andrews Links for 600 years.

[Educational Message: Don't let age, gender, or illness define your limits. Viewers learn that it's never too late to pursue your passion and how the power of perseverance, despite all odds, can help you achieve your dreams.]

Airdate: 4/11/2020

Time:

Duration: 30:00

EARTH ODYSSEY WITH DYLAN DREYER

VOYAGE IN VANCOUVER [EDD229]

Today on Earth Odyssey, host Dylan Dreyer takes us to Vancouver, where we will explore the beautiful landscape and diversity of animals that are native to this area. Located off the west coast of Canada, Vancouver Island stretches approximately two-hundred and eighty miles long by about sixty miles wide. Vancouver Island is known as the largest island off the west coast of North America. First up, we'll learn about the humpback whales that call that waters of Vancouver home. Reaching fifty-two feet in length and weighing more than thirty-six tons, the humpback whale is the fifth largest animal on the planet. The humpback's enormous frames are fueled by small schooling fish like herring and swarms of tiny shrimp-like

crustaceans known as krill. These toothless whales use a mass of bristles called baleen plates to filter food from the water. We'll discover that there are over ten known whale species with baleen plates, categorized as "baleen whales." Baleen bristles can be anywhere from two inches to twelve feet long and are made of the same material as our fingernails. Next, we'll travel to East Sooke Park on the southern tip of Vancouver Island where thousands of turkey vultures gather creating a unique spectacle. Masters of soaring flight, turkey vultures aren't strong flyers and rely on winds and thermal currents to keep them aloft. This efficient way of traveling uses just a fraction more energy than when they're standing still. We'll discover that turkey vultures can have a wingspan of roughly six feet and can weigh up to four pounds. We'll learn that turkey vultures are also known as buzzards or carrion crows in some parts of North America. Finally, we'll meet with the island's largest predator, the black bear. Vancouver Island is home to seven thousand to twelve thousand black bears, one of the highest concentrations of black bears in the world. Darker than mainland bears and slightly larger, the black bears of Vancouver Island can weigh up to six-hundred pounds. We'll discover that adult black bears can gain roughly thirty pounds of fat per week when preparing for hibernation.

[Educational Message: Vancouver Island is a region with giants both on land and in the ocean. These creatures have learned to master the cold and the elements to ensure survival for themselves and their offspring. With the nutrients that Vancouver Island receives from the life cycle from all living things, animals continue to thrive in this unbelievable habitat.]

Airdate: 4/11/2020

Time:

Duration: 30:00

EARTH ODYSSEY WITH DYLAN DREYER

EXPLORING AROUND THE ANDES [EDD230]

Today on Earth Odyssey, host Dylan Dreyer leads us on an amazing adventure to the Andes Mountains, one of the most biodiverse regions on the Earth. At over forty-five hundred miles long, and one-hundred and twenty miles wide, the Andes are an epic landscape of snow-capped mountains and belching volcanoes. We'll learn that the average peak height in the Andes Mountain Range is roughly thirteen thousand feet. First up, we'll travel to the Altiplano region of the Andes to discover more about the creatures that inhabit the area. Due to volcanic activity, toxic lakes have formed in the high altitudes of the Altiplano region. We'll discover that colorful plankton and algae thrive in these mineral rich waters. In the spring, flamingos are attracted to these lakes to feed. Here we'll discover that three of the world's six species of flamingos gather here. All flamingos are filter feeders, targeting shrimp and algae from the salty waters. We'll discover that each species of flamingo has a different sized filter in its bill, and each gathers its food from different depths to avoid competition. Here we'll learn that this filter feeding adaptation was also found in the Pterosaur, which existed roughly one-hundred and fifty million years ago. Next, we'll meet one of the Andes' most iconic animals, the Andean bear. Andean bears are also called "spectacled bears" due to their facial markings which resemble glasses. We'll discover that Andean bears have markings as complicated and unique as human fingerprints. Here we'll witness a mother Andean bear as she teaches her cubs how to forage for food. Finally, we'll journey to the cloud forest to meet with the fascinating bird species of the Andes. In the cloud forest, the high altitude causes the nights to be extremely cold and the days very damp, meaning not many flying insects can survive here. Therefore, most plants are pollinated by hummingbirds. These birds hover in position by beating their wings up to a hundred times per second, with their heartbeat reaching nearly a thousand beats per minute. To power their incredible metabolism, they must consume more than their own weight in nectar every day. We'll discover that hummingbirds must feed from hundreds of flowers to gain enough energy to survive the cold nights.

[Educational Message: Rainfall in the cloud forest is essential to supporting the amazing biodiversity that you'll find in the Andes Mountains. From flamingos to Andena bears, this mountain range is full of danger, beauty, and intrigue.]

Airdate: 4/11/2020

Time:

Duration: 30:00

CONSUMER 101

TOW AWAY [CNR217]

Host Jack Rico and the experts at the testing labs will show us the ins and outs of towing, take us for a stroller test drive, and explain how to find the right mattress for the best night's sleep. First up, we'll meet with an auto expert to learn more about towing trailers and how to do it safely. We'll discover that every truck has a tow rating, which is how many pounds a vehicle can tow behind it. We'll discover that a tow rating consists of three basic principles such as the engine's power, 2-wheel drive vs. 4-wheel drive, and gear ratios. We'll also get a firsthand demonstration on how to correctly and safely attach a trailer to a vehicle. We'll learn that it's vital to check the electrical components of the trailer as well as the tire pressure to ensure it's safe for the road. It's also critically important to know the load capacity of the trailer and the vehicle. We'll discover that load capacity is the combined weight of people and gear in the truck and trailer. Next, we'll join an expert and a teen in the field to learn how strollers are tested and evaluated. In order to accurately simulate a child in the stroller, thirty-pound control weights are placed in the strollers for testing. Here we'll see how strollers are evaluated using various turning maneuvers as well as how they handle going over curbs and other obstructions. We'll find out that there are many different types of strollers for different activities and lifestyles. Finally, Jack visits with an expert to learn how to choose the best mattress for a good night's sleep. We'll learn that mattresses are available in a wide variety of sizes, materials, and firmness. Here we'll witness how scientific instruments are used to measure the durability and quality of a wide range of mattress types.

[Educational Message: In this episode, we learned how strollers are tested and evaluated for performance and safety. Joining our experts was a teenager with little experience using a stroller. This teenager learned valuable tips and advice on how to properly use a stroller when taking care of her siblings or when babysitting. We learned that it's critical to understand how strollers work and perform to ensure the safety of the child.]

Airdate: 4/11/2020

Time:

Duration: 30:00

VETS SAVING PETS

NINE LIVES AND COUNTING [VSP215]

Today on Vets Saving Pets, a Bengal cat that can't seem to pounce, a miniature poodle has a cancerous tumor on his jaw, and a cat named Enzo arrives at the clinic with a serious head wound. First up, an elderly miniature poodle named Dudley arrives at the clinic to have a cancerous tumor removed from its jaw. Dr. Boyd, the clinic's surgeon, will be performing a CT scan to see how far the tumor extends into Dudley's jaw. After confirming the placement of the tumor, Dr. Boyd will need to perform a risky surgical procedure to remove the cancer from Dudley's jaw. Next, a pet Bengal cat named Simba arrives at the clinic suffering from mobility issues. Dr. James, the clinic's veterinary neurologist, meets with Simba and quickly determines that the cat's peripheral nerves are being severely affected. Dr. Boyd recognizes this condition to

be common in this breed of cat and prescribes corticosteroids to help restore Simba's mobility. Finally, a cat named Enzo arrives at the clinic with a serious head wound suffered during a fight with another cat. Dr. Bryer, the clinic's emergency medicine veterinarian, will examine Enzo's injury to determine the best treatment for recovery. After discovering that the wound has been infected, Dr. Bryer and team will have to clean and flush the area to determine if surgery will be necessary. Once the area is shaved and cleaned, Dr. Bryer confirms that surgery will not be needed and prescribes Enzo with antibiotics to aid in his recovery.

[Educational Message: Veterinarians can specialize in many different areas of medicine, such as critical care, oncology, cardiology, neurology, anesthesiology, dermatology, dentistry, surgery, and more. Education is critical to the success of these specialists. Working in the veterinary field is a rewarding career path but will require much skill and dedication.]

Airdate: 4/11/2020

Time:

Duration: 30:00

ROOTS LESS TRAVELED

CONNECTING TO A PURPLE HEART [RLT102]

Today on Roots Less Traveled, host Faruq Tauheed takes 80-year-old dancing Grandpa Evan and his grandson Scott to Billings, Montana. We'll learn that the state of Montana became a U.S. territory during The Gold Rush of 1864. Here the duo will learn that Evan's great-grandfather was an integral part of the U.S. western states expansion of 1862 and had even cultivated a 160-acre farm. We'll discover that this was made possible by the Homestead Act, which was signed into law by President Abraham Lincoln in 1862. We'll also find out that between 1880 and 1890, the population of Montana grew from 39,000 to 143,000. Montana is nicknamed "The Treasure State" due to its availability of agate, gold, silver, and other precious stones. But closer to Evan's heart, he learns that two of his uncles who he had met when he was a child, were both prisoners of war in WWII. Even more fascinating, Evan and Scott discover that both of their uncles received Purple Hearts. We'll find out that the Purple Heart Medal is a combat decoration awarded to members of the U.S armed forces who are wounded or killed while serving in the military. After this discovery, Evan and Scott deeply connect while visiting the Montana Purple Heart Memorial to honor their veteran relatives.

[Educational Message: When we look deeper into our past, we can gain a better understanding of our roots. In this episode, Evan and Scott learned that their relatives both served in WWII and were even taken as prisoners for several years. Given that he once served in the Air Force himself, Evan gains a new connection to his uncles and their military past. Understanding the incredible sacrifice and courage of their ancestors has brought Evan and Scott closer together.]

Airdate: 4/11/2020

Time:

Duration: 30:00

THE CHAMPION WITHIN

THE PERFECT PAIRINGS [HOC404]

First, we hear how Paralympian Tatyana McFadden got started in wheelchair racing, going on to become the first racer ever to win all four major marathons-- London, Boston, New York and Chicago-- in a calendar year. The motto of the Paralympic Games is "Spirit in Motion," and the term "Paralympics" comes from the Greek "para" meaning "besides or alongside," suggesting that the Games run during the Olympics. Next, we meet two junior golfers, Conner Ford and Megha Ganne, and learn how they got started in golf-- Conner

wanting to make friends and Megha wanting to test her skills-- only to end up dominating at the Drive, Chip and Putt championship. Then, we hear U.S. rugby player Junior Waiyaki discuss his dreams of competing in the 2020 Olympics and how it takes more than size and strength to become the best. Rugby was invented in 1823 during a soccer game when a player picked up the ball and ran with it; the first international rugby game was played between England and Scotland in 1871. Lastly, we hear how golfer Freddie Jacobson's son, Max, bravely faced the possibility of losing his ability to play sports after being diagnosed with a rare heart condition that was only fixable with a risky surgery. The first successful open heart surgery without complications is attributed to Dr. Ludwig Rehn in 1896.

[Educational Message: Instead of letting adversity and doubt slow you down, let it be the driving force to challenge the odds. Viewers learn about wheelchair racing in the Paralympics, how to become a junior golfer, the history of rugby, and how to adjust to big changes.]

Airdate: 4/18/2020

Time:

Duration: 30:00

EARTH ODYSSEY WITH DYLAN DREYER

THE AMAZING AMAZON [EDD231]

Today on Earth Odyssey, host Dylan Dreyer takes us to the Amazon to explore the wildlife and the cultures that live there today. Formed over the last fifteen million years, the Amazon covers three million square miles of South America. This vast rainforest straddles the equator making it permanently hot and wet, the ideal conditions for creating and maintaining life. First up, we'll learn about ancient civilizations living within the dense rainforests of the Amazon. We'll discover that it's now thought that five and a half million people inhabited the Amazon in the early sixteenth century. Today, there are thirty million people living in the Amazon. Many are descendants of the first waves of incomers such as rubber farmers and traders, but some are descended from people that have lived in the Amazon for ten thousand years. We'll discover that the population of the Amazon River Basin is less than ten percent indigenous. Here we'll learn about the rituals and hunting practices of the native people. We'll also witness the unique rites of passage for young boys living within the native tribes. Next, we'll discover more about the predators of the Amazon, such as the jaguar. While many cats avoid getting their feet wet, jaguars use the smaller waterways of the Amazon to move around with ease. Their large paws make excellent paddles as they hunt for fish, turtles, and even caiman. Finally, we'll discover more about the pink river dolphin. Pink river dolphins are nearly blind, but they do not require keen eyesight due to the low visibility in the murky waters of the Amazon. These creatures hunt and navigate using echolocation, an adaptation that helps the animals build a sonic picture of their underwater world. We'll discover that pink river dolphins are able to bend up to ninety degrees, allowing them to easily navigate roots and trees in the water.

[Educational Message: The traditions that have been passed down from generation to generation only add to the pure wonder of this biodiverse South American jewel. As the modern world encroaches,

it's clear how vulnerable plants and animals can begin to change. The Amazon's future is in our hands and its complexities must be respected.]

Airdate: 4/18/2020

Time:

Duration: 30:00

EARTH ODYSSEY WITH DYLAN DREYER

FINDING THE LOST WORLDS [EDD232]

Today on Earth Odyssey, host Dylan Dreyer leads us on an incredible adventure to the lost worlds of India. Known as the Seven Sisters, the Northern region of India is comprised of seven relatively unexplored and isolated states bordered by the Himalayas to the north and the Indian Ocean to the south. These seven states of India are among the least explored places on Earth. First up, we'll learn about the local inhabitants of these lost worlds of India. Although the local humans thrive among the rich forested mountains, they aren't immune to attacks from the animals they share their home with. The Indian elephant's migratory routes extend throughout the region, but their ancient paths have been seriously interrupted by the local people. Here we'll discover that elephant herds consist of about fifteen elephants on average and are typically led by the oldest female. Elephants eat an estimated fifty-six tons of food per year, totaling roughly three hundred and thirty pounds per day. As homes and crops are devastated, tensions between humans and elephants escalate. As crops spread and villages grow, further clashes seem inevitable. Here we'll learn how the local people live and work alongside these massive creatures in harmony. Next, we'll embark on a hunting journey with a local tribe and learn more about the cultural rituals of these native people. We'll also find out that traditional folk songs and dances are essential ingredients of the local culture. These celebrations are inspired by a creature that is an icon throughout Northeast India, the great hornbill. Finally, we'll discover more about the legendary great hornbill bird species. Hornbills have a long curved bill which is often brightly colored and quite heavy. Hornbills are the only birds whose first two neck bones are fused together to help support the weight of their beak. Research suggests the hornbill's impressive beak may have formed to amplify their territorial calls. Here we'll discover that hornbills primarily eat fruit but supplement their diet with small mammals, insects, and even snakes. We'll also learn that the hornbill's wings are so loud, they can be heard from long distances, even up to half a mile away.

[Educational Message: Today we witnessed an incredible connection between animals and humans that's rarely seen in the wild. Without many other places on Earth like these lost worlds, it's important to protect some of the last remaining ancient traditions our world has.]

Airdate: 4/18/2020

Time:

Duration: 30:00

CONSUMER 101

WIFI, ART THOU SAFE? [CNR218]

Host Jack Rico and the experts at the testing labs will teach us how to keep your home powered during a blackout, how to avoid the dangers of public WIFI, and how to maintain your home's roof. First up, we'll learn how to keep your digital privacy safe when using public WIFI connections. We'll meet with a digital privacy expert to discover how best to protect your accounts and avoid rogue WIFI networks. We'll learn that rogue networks are created by hackers and can be used to steal your passwords and other login information. We'll discover ways to protect our digital information by looking for secure networks, using firewalls, and establishing a virtual private network. Next, we'll meet with a roofing expert in the field to

learn how best to maintain your home's roof. But before we check out the roof, we'll learn how to understand ladder safety ratings for different types of ladders. We'll learn that you should always maintain the three points of contact rule, which means keeping two hands and one foot on the ladder at all times. However, we'll discover that you shouldn't go on the roof yourself, leave that to the professionals. We'll learn that a good pair of binoculars is all you need to examine your roof's condition. We'll also find out about the different types of roof shingles and how they're tested for durability. Finally, we'll discover how generators can help keep your home out of the dark during a blackout. We'll learn that a gas-powered portable generator is a good temporary option to power necessary appliances in your home. It's important to store your generator at least twenty feet outside of your home and ensure your extension cords are suitable for outdoor use. Also, be sure your extension cords can handle the total amperage of the appliances and devices you're powering. As roughly seventy people die each year of carbon monoxide poisoning from generators, it's critical to follow all safety precautions when using a generator.

[Educational Message: In this episode, we learned how to safely operate a generator during a power outage. It's important to remember that gas-powered generators produce carbon monoxide, a poisonous gas that can be fatal to humans. In the event of a power outage, remain calm and always practice safety when using a generator.]

Airdate: 4/18/2020

Time:

Duration: 30:00

VETS SAVING PETS

A BIT OF ELBOW GREASE [VSP216]

Today on Vets Saving Pets, a chocolate Labrador suffers a knee injury, a cat suffers from gingivitis, and an aging dog is having mobility issues. First up, a chocolate Labrador named King has arrived at the clinic after injuring his knee when slipping on a patch of ice. Dr. Boyd, the clinic's surgeon, has diagnosed King with fragmented coronoid process, which means he has small fragments of bone floating in his elbows. Dr. Boyd will first insert a small camera into King's elbow to confirm the diagnosis and then perform surgery to remove the bone fragments. Next, a cat named Parsley arrives at the clinic with serious dental issues. Dr. French, the clinic's veterinary dentist, determines that Parsley is suffering from a severe case of gingivitis. Here we'll discover that gingivitis is an inflammation of the gums and is the earliest stage of periodontal disease. After administering X-rays, Dr. French will perform surgery to remove Parsley's affected teeth and treat the gingivitis. Finally, a cocker spaniel named Charley is brought to the clinic suffering from mobility issues. Dr. James, the clinic's neurologist, will perform a neurological exam on Charley to determine the cause of his disoriented gait. After results prove inconclusive, Dr. James orders an MRI exam to rule out any potential tumors or inflammation in Charley's brain. Following the results of the MRI, Dr. James determines that Charley is suffering from ear canal disease and will be prescribed medication for recovery.

[Educational Message: Veterinarians dedicate their lives to treating our pets. In this episode, we see the compassion of veterinary professionals as they treat their patients. We must not forget that all life is important, no matter how big or small.]

Airdate: 4/18/2020

Time:

Duration: 30:00

ROOTS LESS TRAVELED

CONNECTING TO A LANDMARK COURT CASE [RLT103]

Today on Roots Less Traveled, host Faruq Tauheed takes mom and son duo, Sharee and DeVonn, on a trip to Nashville, Tennessee. We'll first find out that Nashville is named after an American Revolution general, Francis Nash. Additionally, we'll discover that after the Civil War, Tennessee was the first state to rejoin the Union on July 24th, 1866. At a visit to the Tennessee Supreme Court, Sharee and DeVonn will learn that their four-times great grandfather Larkin Ford was a part of an 1840s landmark Tennessee court case. In 1840, Larkin Ford was a slave living in Washington County and was owned by American Revolutionary war veteran, Loyd Ford. That year, Loyd Ford drew up a will that would give his slaves their freedom and his land after his death. When Loyd Ford died in 1843, his slaves, including Larkin Ford, sought to validate his will. Loyd Ford's children would contest their father's will through a series of Supreme Court cases. Remarkably, we'll learn that Larkin Ford prevailed and was awarded the very same farm that he worked on as a slave. After being awarded the property, Larkin Ford went on to become a delegate in the Republican Party and helped elect African American officials into Tennessee government. Inspired by this incredible revelation, Sharee and DeVonn volunteer to help register voters in Nashville. We'll learn that Tennessee earned its nickname "The Volunteer State" during the War of 1812.

[Educational Message: When we have a greater understanding of our roots, we can be inspired to do great things in our own lives. In this episode, Sharee and DeVonn discovered that their ancestor Larkin Ford secured his freedom and land before the Emancipation Proclamation and the end of the Civil War. Understanding the significance of this historic Supreme Court case, Sharee and DeVonn have gained a new sense of pride and appreciation for their family history.]

Airdate: 4/18/2020

Time:

Duration: 30:00

THE CHAMPION WITHIN

THE ROAD TO REDEMPTION [HOC405]

First, we meet former Indy Racing League driver Sam Schmidt, who was left paralyzed after suffering a spinal cord injury in an Indy car crash. Although he could never race again, Sam was determined to stay in the sport. We learn how he re-imagined his dream, and created a new role in racing for himself as co-owner of Arrow Schmidt Peterson Motorsports. Sam's success on the track, whether as driver or owner, epitomizes hard work, determination, and a positive attitude. Next, we see how Shelley Looney's game-winning goal in the 1998 Winter Olympics inspired a generation of female hockey players. Growing up, Shelley was the only girl on her local hockey team, but she never let that barrier to entry stand in the way of pursuing her dream. We learn how Shelley's passion for hockey helped push her academically, working hard to maintain her grades despite having a form of dyslexia. Now, Shelley uses her talents to help young women follow in her footsteps, paying it forward as a hockey coach. Finally, we hear how amateur golfer Leonie Harm and her family made sacrifices for her burgeoning golf career. At 15, tragedy struck when Leonie was hit by a car on an early morning training run. Despite doctors giving her a 1% chance of survival, Leonie woke up from her coma fighting to get back on top of her golf game. Not long after her return to the sport, Leonie's mom was diagnosed with breast cancer and passed away. Through it all, Leonie appreciated the sacrifices her mother made for her development in golf, and pushed herself harder to not let those sacrifices be in vain. Leonie explains how once she stopped putting pressure on herself to win, and instead focused on simply playing the game as best she could, Leonie started playing better than ever.

[Educational Message: Success may not always come in the form you originally imagined; if new circumstances prevent you from accomplishing your original goal, it's important to adjust your vision to fit within the confines of possibility instead of giving up. Giving back to your community and passing along your talents can be just as rewarding as playing the game yourself. It's important to

appreciate the sacrifices others make to help you achieve your dream; always be grateful for the support systems present in your life, and use their inspiration to push yourself to try your best.]

Airdate: 4/25/2020

Time:

Duration: 30:00

EARTH ODYSSEY WITH DYLAN DREYER

GOING DOWN THE GANGES [EDD233]

Today on Earth Odyssey, host Dylan Dreyer takes us to the Ganges where we'll discover the fascinating creatures that live on this amazing landscape. On its epic journey from the highest mountains, through cultivated farmland, sprawling wilderness, to the Indian Ocean, the Ganges is the longest river in India. The Ganges provides a home to some of India's rarest creatures and a lifeline to millions of people living in India. First up, we'll learn about some of the native bird species that call the Ganges home. Birds known as brown dippers can be found across the Himalayas, China, Japan, and Korea. Brown dippers have adapted to forage for food in the rocky stream beds that feed the Ganges. Their short wings are strong enough to swim under water and their blood stores more oxygen than terrestrial birds, allowing them to hold their breath for up to thirty seconds. Next, we'll learn about the local agriculture that takes place in the Ganges region. The lower reaches of India's Ganges river basin are so fertile, the locals call the area the rice bowl of India. Farmers reap four rice harvests a year in this region, which is double that of many parts of India. But these fertile fields bring dangers of their own. Here we'll learn about the monocled cobra and how it poses a threat to local farmers. We'll find out that nearly a million people are bitten by snakes each year, with monocled cobras being one of the most venomous snakes in Asia. We'll also discover that monocled cobras have specially adapted fangs that allow them to shoot venom at threats or prey. Here we'll learn how these creatures are highly revered and protected in the local Indian culture. Finally, we'll join some locals on a fascinating fishing expedition. Using a secret weapon, these fishermen utilize trained otters to help them with their catch. These locals have recruited some of nature's most talented fishermen and trained them to herd fish into their nets. The word "otter" is rooted in the same old English word that yielded the word "water." We'll discover that a group of otters is known as a "raft" when in the water, and a "family" when on land. Here we'll also learn that in China, fishermen have been able to use trained cormorant birds to help catch fish.

[Educational Message: The relationship between animals and humans is a peaceful reminder that respect goes a long way in the community. The river's unique properties nurture and sustain a spectacular array of wildlife. From demise and decay come new beginnings on the Ganges, India's great river of life.]

Airdate: 4/25/2020

Time:

Duration: 30:00

EARTH ODYSSEY WITH DYLAN DREYER

CHARGING THROUGH CHINA [EDD234]

Today on Earth Odyssey, host Dylan Dreyer takes us to China to explore the unbelievable wildlife that roams the land. The snow-capped mountains, temperate valleys, and tropical jungles are home to a spectacular array of wildlife. Approximately half of China's birds and mammals live in this tiny region, many found nowhere else on Earth. First up, we'll learn about one of the world's most elusive animals, the red panda. Just slightly larger than a domestic cat, red pandas live a solitary life in the foothill forests of China. Similar to giant pandas, red pandas have a pseudo thumb that helps them grip bamboo. Red pandas

can't digest the cellulose found in most plants, so their diet is made almost entirely of bamboo. Because bamboo nutrition levels are relatively low, they spend around thirteen hours a day feeding. We'll discover that to cope with cooler temperatures, red pandas' bodies are completely covered in fur, including the soles of their feet. Next, we'll learn about the agricultural practices of the local people. We'll learn that the Chinese have been cultivating rice for more than eight thousand years. Rice is considered a staple source of food for more than half the world's population. Here we'll learn about the rice terraces in the Hunan province and how they are some of the oldest human structures in China. Here locals have created a complex system of channels to divert water from the forested mountains to lower altitude fields. We'll discover that these man-made meadows are the perfect habitat for many wetland residents such as paddy frogs and pond herons. Finally, we'll journey to the southwest tropical region of China where we'll meet some fascinating insects. Weaver ants get their name from the unique manner in which they construct their nests. As one group of adults pulls living leaves together, another begins joining the leaf edges using a remarkable process. Using the silk produced by their larva, the ants apply the silk like a glue gun to connect the leaves together. Weaver ants are highly territorial and aggressively defend their territories against intruders. Here we'll learn that silk weaver ants are a "monogynous" species," meaning they only have one queen per colony.

[Educational Message: Southwest China is a secret paradise where life fueling valleys play host to a vast array of creatures, many found nowhere else on Earth. The region's unique geography not only sustains food and water, it provides protection from the extreme neighboring climates. China's secret garden remains a unique and magical land.]

Airdate: 4/25/2020

Time:

Duration: 30:00

CONSUMER 101

ROBOT INVASION [CNR219]

Host Jack Rico and the experts at the testing labs will show us what to look for when buying a used car, the future of vacuuming, and how to keep pests out of your home. First up, Jack joins an auto expert to learn some tips on how to buy the best used car. We'll find out that when speaking to a dealer about buying a car, you should never reveal how much money you want to spend. We also learn that you should never let a car dealer rush you into a sale, always take your time to think it over first. We'll also find out that it's important to inspect the vehicle for any defects or damage before buying. It's also important to have a mechanic that you trust check the vehicle thoroughly for any other hidden issues. Next, we'll check out the science behind the next generation of smart home helpers, robotic vacuums. We'll meet with expert vacuum testers to learn more about how the robot vacuums are scientifically measured in a controlled environment. In order to ensure consistency and accuracy, testers use a controlled weight of a variety of different sized debris for the vacuums to pick up. Following the test, the debris picked up by the vacuums is weighed in order to determine how effective the vacuums performed. We'll also see how experts use sensor technology to generate a map of the vacuum's path to determine how well it covers the space of a room. There are a variety of different types of robotic vacuums you can purchase depending on your needs and budget. Finally, we'll meet with a home expert to learn how to avoid pests like ants from coming into your home. In order to protect your home from ants, we find out that it's best to keep your kitchen clean and tidy. We'll learn that ants are attracted to food and sweets, so it's best to keep any loose food products in an airtight container. We'll also discover that it's important to never spray pesticides to control an ant infestation.

We'll find out that these products contain powerful chemicals that you would not want to expose to your family or pets.

[Educational Message: In this episode we learned about the importance of keeping your home clean and pest-free. By keeping our kitchen and homes clean, we can avoid inviting in any unwanted insect guests. We learned it's important to always keep safety in mind when handling an infestation. Never use strong chemicals or pesticides in and around your home, always leave that to the professionals.]

Airdate: 4/25/2020

Time:

Duration: 30:00

VETS SAVING PETS

A DIZZYING CASE [VSP217]

Today on Vets Saving Pets, a Bichon comes into the clinic with seizure issues, a cat is in need of rehabilitation, and a cat named Cyril is suffering from high blood pressure. First up, a Bichon named Mazy is brought into the clinic suffering from seizures. Dr. James, the clinic's neurologist, performs several neurological tests but suspects a brain tumor or inflammatory disease could be the cause of Mazy's seizures. In order to more accurately diagnose the issue, Dr. James performs a computerized tomography scan, or CT scan, of Mazy's brain. After results are still inconclusive, Dr. James administers a spinal tap, or lumbar puncture, that can help diagnose infections and nervous system disorders. It is soon determined that Mazy has an inoperable mass in her nasal cavity. Dr. James prescribes medication to stop the seizures and sends Mazy home for further monitoring. Next, a cat named Reine is brought to the clinic for rehabilitation following a recent injury. After falling from a balcony, Reine suffered a scapular fracture that has limited her mobility. Reine will visit with the clinic's rehabilitation therapist for physical therapy and strengthening exercises to improve her range of motion. Finally, a Burmese cat named Cyril is brought into the clinic suffering from complications associated with his high blood pressure. Dr. Williams, the clinic's cardiologist, will be checking up on Cyril to determine if his blood pressure has lowered since his previous veterinary visit. Although his blood pressure has improved, Dr. Williams is concerned with Cyril's inexplicable head tilt that is affecting the cat's balance. Dr. Cochrane, one of the clinic's neurologists, is called in to assist Dr. Williams with diagnosing Cyril's condition, which may be caused by a brain bleed. After performing a variety of neurological tests, Dr. Cochrane confirms that the condition is not serious and sends Cyril home to be monitored by her owner.

[Educational Message: When we work together, we can achieve great things. It's important that we consult with those who have more experience and knowledge to help better solve problems. Veterinarians often rely on each other to successfully diagnose and treat their animal patients.]

Airdate: 4/25/2020

Time:

Duration: 30:00

ROOTS LESS TRAVELED

CONNECTING TO THE BROOKLYN BRIDGE [RLT104]

Today on Roots Less Traveled, host Faruq Tauheed takes aunt and nephew Tammy and Julian on a cosmopolitan adventure in Brooklyn, New York. We'll first learn that the Brooklyn borough of New York City was originally called "Breukelen," which is Dutch for "broken land." Tammy and Julian's journey begins when they learn that they are related to undertaker John Baisley, who helped the city bury its dead during the Yellow Fever epidemic in 1856. Since the city of Brooklyn was so densely populated, hundreds

died during this time and others left their homes and abandoned the city. We'll learn that while many were fleeing the city, John Baisley stayed in Brooklyn to help nurse the sick and dying, in most cases rendering his services without expecting or receiving any pay. Tammy and Julian also learn that they have direct ties to James Howell, a former Mayor of Brooklyn who served from 1878-1881. Not only was James Howell the 19th Mayor of Brooklyn, he also owned a large iron works company and became an integral part in building the iconic Brooklyn Bridge. To learn more about their ancestor's iron works company, Tammy and Julian visit a blacksmithing shop to discover what it would've been like to work as a blacksmith during that time. Here we'll discover that the craft of blacksmithing has been traced back to 1350 BCE.

[Educational Message: In this episode, Tammy and Julian discovered their family roots go much deeper than they had previously known. Tammy and her father always shared a strong connection to New York City and specifically the Brooklyn Bridge. After discovering that their relative, James Howell, was elected as the President of the trustees for the Brooklyn Bridge, Tammy's connection to the bridge grows even stronger. Sharing this experience with her nephew Julian only serves to strengthen that connection as well as their bond as a family.]

Airdate: 4/25/2020

Time:

Duration: 30:00

THE CHAMPION WITHIN

HOPE AGAINST THE ROPE [HOC406]

First, we meet rising boxing star Jesselyn Silva, an honor roll student who is also a two-time Junior Olympic champion. We see how Jesslyn appreciates her father's support and how she chooses to work hard in the gym instead of playing with her friends, a sacrifice she's happy to make to pursue her dream of making it to the 2024 Olympic Games. Though her record isn't perfect, Jesselyn views losses as lessons rather than letting those disappointments deter her from pursuing her passion. Next, we see how Jason Enloe's golf family at SMU rose to the occasion when he needed their support after losing his wife to cancer. Then, we learn how women's golf has grown in South Korea after Se Ri Pak's success in the sport. With Se Ri as their inspiration, the next generation of South Korean golfers now dominate the LPGA Tour. Last, we see how Steve Page stepped up for his community after wildfires tore through Sonoma County, CA. As president of Sonoma Racing, Steve opened up the Sonoma Raceway to evacuees, giving people a place to go when they had nowhere to turn. Viewers learn the importance of helping others in their community, and how one act of kindness can impact many.

[Educational Message: Hard work and determination are important in the pursuit of excellence, but it's okay to not be perfect all the time. It's important to be there for your friends when they're going through a difficult time; we all need support at certain points in our lives. When you succeed, be mindful that you may become a role model for others following in your footsteps.]

Airdate: 5/2/2020

Time:

Duration: 30:00

EARTH ODYSSEY WITH DYLAN DREYER

JOURNEY THROUGH JAPAN [EDD235]

Today on Earth Odyssey, host Dylan Dreyer leads us on an adventure through the incredible wildlife of Japan. Japan is a land of wildly diverse environments, consisting of nearly seven thousand islands spread over two thousand miles north to south. From snow-covered mountains to steamy subtropical mangroves,

animals have adapted to survive in them all. First up, we'll travel to the Shiretoko peninsula in Northern Hokkaido to learn more about the animals that call this region home. Nearly a third of the world's population of Steller's sea eagles migrate here from Russia every winter. Steller's sea eagles are among the largest eagles in the world, sporting a wingspan of up to eight feet long. Here we'll discover that the Steller's sea eagle was named for Georg Wilhelm Steller, an eighteenth-century naturalist. Next, we'll learn more about the northern red fox and how it survives in the frozen winter wilderness. We'll discover that foxes' tails serve as both mechanisms for balance as well as warmth in the cold months. We'll follow these foxes and witness how these opportunistic scavengers seek out their prey in the frozen landscape. Finally, we'll discover more about the Japanese honeybee. We'll learn that Japanese honeybees can pollinate at temperatures as low as fifty degrees Fahrenheit. To make one pound of honey, bees must gather nectar from nearly two million flowers. Here we'll discover more about the honeybee's ancient rival, the Japanese hornet. Japanese hornets are more than five times the size of the honeybee and they pack an extremely potent venom. However, the Japanese honeybee has developed a unique and grisly defense tactic against the hornets. Up to five hundred bees form a ball surrounding the hornet and their vibrating bodies heat its core to more than one hundred and ten degrees Fahrenheit. The bee's secret weapon is a tolerance to two-degree greater heat than their enemy. This fascinating technique relies on teamwork and allows the honeybees to subdue much larger threats.

[Educational Message: Japan's extremely diverse landscape and vast ecosystems create a home for all types of creatures. From the smallest bees, to the largest eagles, there's no shortage of fascination for this wild animal kingdom.]

Airdate: 5/2/2020

Time:

Duration: 30:00

EARTH ODYSSEY WITH DYLAN DREYER

A CAMPAIGN IN CAMBODIA [EDD236]

Today on Earth Odyssey, host Dylan Dreyer takes us on an incredible journey to Cambodia. Bordered by the countries Thailand, Laos, and Vietnam, Cambodia is part of a region known as Indochina. Cambodia is home to an incredibly diverse group of wildlife, including over one hundred and twenty species of mammal. First up, we'll learn about the giant ibis, the national bird of Cambodia. With only a few birds observed in neighboring Laos and Vietnam, Cambodia is home to ninety percent of the world's population of giant ibis. While they normally remain in pairs or family groups, during the tough dry season they flock together to feed in the shrinking wetlands. Here we'll learn that the giant ibis feeds on a variety of amphibians, reptiles, insects, and other small animals. The giant ibis also relies on larger grazing animals to dig holes which create pools for the birds to feed. Next, we'll travel to lowland forests of Cambodia to discover more about Indochinese silvered langurs. Long muscular legs and gripping feet make them exceptional climbers. Agility is key to survival and they're perfectly designed for their world. Silvered langurs are also known as leaf monkeys due to their almost exclusively leafy diet. As some of the leaves they eat contain toxins, their large specialized stomach allows them to digest otherwise poisonous leaves. Silvered langurs have also been observed eating clay, potentially as an antacid to their acidic diet. Finally, we'll journey down the Mekong River and learn more about the aquatic inhabitants of the region. We'll discover that the Mekong River is the longest river in Southeast Asia and the twelfth longest in the entire world. Here we'll meet one of Cambodia's rarest and most revered predators, the Siamese crocodile. With only around two hundred and fifty remaining in the wild, this is a species on the brink. This prehistoric crocodile has mastered its hunting technique over millennia. Having walked with dinosaurs, relatively little has changed over the years. Scavenging the dead and hunting the weak, the Siamese crocodile performs a vital role for Cambodia's

wildlife. Here we'll also discover that Siamese crocodiles are not able to grow past twelve feet in length from head to tail.

[Educational Message: Cambodia's wild land of monsoon rains, raging rivers, and flooding lakes provide some of the most unique habitats on Earth. Life giving waters carve out environments, providing opportunities for some and challenges for others. It's a land where lost civilizations have been rediscovered and where animals face a daily battle to survive. A tidal wave of life feeds Cambodia, the water kingdom.]

Airdate: 5/2/2020

Time:

Duration: 30:00

CONSUMER 101

ELECTRIC PAST IS PRESENT [CNR220]

Host Jack Rico and the experts at the testing labs teach us about electric cars, show us how to rid your home of nasty allergens, and teach us how to secure our digital privacy. First up, we'll meet with a group of experts to find out ways to keep your digital privacy safe. We'll discover that "smart" household items such as door locks, cameras, refrigerators, and even lightbulbs can be accessed by hackers if you're not careful. We'll learn that you should have a strong password and always update the firmware for these devices. We'll discover that firmware is actually a type of software that runs the hardware of whatever device you're using to connect to the internet. It's vital to keep your firmware updated so that you always have the latest security fixes. Next, we'll meet an expert on the auto test track to learn more about the past and present of electric cars. Here we'll learn that the first fully electric vehicles were built in the early 1900's. As technology has changed drastically over the last hundred years, we'll now see how the electric cars of today have evolved. Here we'll learn that electric cars now include technology that captures energy normally lost during braking and sends that energy to the car's batteries. Known as regenerative braking, this technology uses the car's generator to help slow the car down. Finally, we'll meet with an expert to learn about various allergens and how to keep them out of your home. We'll discover that it's important to vacuum your home at least once a week, as dust can contain mites, pollen, pet dander, and even cockroach droppings. Also, we learn that if you have allergies, it's recommended that you use a vacuum with a HEPA, or High Efficiency Particulate Air filter. Also, be sure your vacuum has a bag instead of a bin to avoid releasing those allergens back into the air when emptying.

[Educational Message: In this episode, we learned about the importance of protecting your personal information and digital privacy. We learn that many "smart" household items such as doorbells and refrigerators can be a gateway to our personal information. Changing passwords and updating firmware can help prevent hackers from stealing your information.]

Airdate: 5/2/2020

Time:

Duration: 30:00

VETS SAVING PETS

ALL CHOKED UP [VSP218]

Today on Vets Saving Pets, a bulldog is brought to the clinic with respiratory issues, an elderly feline has kidney problems, and a Shih Tzu meets with an ophthalmologist. First up, a bulldog named Dougie is

brought to the clinic with severe breathing problems. Dr. Ringwood, the clinic's surgeon, examines Dougie and determines that his elongated soft palate and constricted nostrils are causing the respiratory issues. Here we'll learn that this condition is common for "flat-faced" or brachycephalic dogs, such as bulldogs, pugs, and boxers. After confirming Dougie is suitable for anesthesia, Dr. Ringwood will proceed with the surgical procedure to remove the excess soft palate and widen the nostrils to allow normal breathing. Next, a 24-year-old feline named CC arrives at the clinic suffering from kidney failure. Dr. Martin, the clinic's internal medicine veterinarian, will be performing an ultrasound to determine if CC's kidney issues have stabilized. After an examination, Dr. Martin confirms that the kidneys have stabilized, and that CC's issues are common for her old age. Dr. Martin will prescribe subcutaneous fluids to ensure CC is well hydrated before sending her home. Finally, a Shih Tzu named Bling Bling arrives at the clinic with multiple eye issues. Dr. Gray, the clinic's ophthalmologist, will examine Bling Bling's eyes with various instruments to determine the cause of the issues. Dr. Gray determines that Bling Bling is suffering from entropion, a condition that causes the eyelids to roll inward. This condition causes irritation of the eyes and can lead to serious complications if not properly treated. Bling Bling will undergo a delicate entropion repair surgery to remove the excess tissue from his eyelids.

[Educational Message: Veterinarians must have compassion for both their patients and their patients' owners. Working in an Emergency veterinary clinic presents challenging and emotional cases that can be difficult for pet owners to cope with. A career in veterinary medicine will have challenges but can be a rewarding profession.]

Airdate: 5/2/2020

Time:

Duration: 30:00

ROOTS LESS TRAVELED

CONNECTING TO MILLIONS [RLT105]

Today on Roots Less Traveled, host Faruq Tauheed takes uncle and nephew Al and Jr on an ancestral trip to Havana, Cuba. We'll discover that stretching almost 750 miles east to west, Cuba is the largest known island in the Caribbean Sea. The city of Havana is one of the fifteen provinces of the Republic of Cuba. Here Al will learn that his grandfather, Joseph Barlow, owned and developed thirty-four blocks of downtown Havana. This area, approximately equal to 1.6 miles, also includes the now-famous suburban neighborhood Buena Vista. We'll learn that Joseph Barlow once owned the Barlow-Cuba Company of Havana. Appraised at over \$4 million during the early 1900's, the Barlow-Cuba Company was an extremely successful business. But due to an unfortunate turn of fate, Joseph Barlow lost his riches in a political coup. Joseph Barlow had previously purchased the land under old Spanish grants that were later ruled illegal by the Republic of Cuba. Joseph Barlow's property was soon seized under a provisional decree of President Zayas. Still a rich man, Joseph Barlow started a legal fight against the order but was turned down in every court in Cuba and eventually spent his entire fortune. We'll discover more about the history of Cuba and how after a 54-year-long dispute, Cuba and the United States reestablished their diplomatic relations in 2015. As Al and Jr connect over their own entrepreneurship, they learn where their family's resilience came from.

[Educational Message: In this episode, Al and Jr uncovered incredible family roots in Cuba they did not know existed. The duo discovered that their relative Joseph Barlow had achieved great wealth and success as an entrepreneur in Havana, Cuba. However, due to political and governmental changes in the region, Joseph Barlow eventually lost his great fortune. As both Al and Jr are also entrepreneurs, they connect and bond deeply over their relative's struggles and tragic end.]

Airdate: 5/2/2020

Time:

Duration: 30:00

THE CHAMPION WITHIN

FLO VAULTER [HOC407]

First, we learn how Denny Hamlin's humble beginnings made him into the modest winner he is today as one of NASCAR's biggest stars. Before his racing career, Denny helped out at his dad's trailer and hitch shop, which he credits for helping to develop a strong work ethic. Denny's parents made many financial sacrifices to help Denny's burgeoning racing career, something that Denny makes a point to remember in all of his success as a professional stock car driver. Then, we meet cyclist Annemiek van Vleuten, learning about her comeback after a terrible crash during the 2016 Rio Olympics cost her the gold medal. After her recovery, Annemiek returned to cycling to ultimately win a world title, inspiring viewers to keep pushing for their dreams when it may seem the race has been lost. Then, we hear how a great mentor helped Tony Finau on his way to golf greatness. PGA pro Mark Whetzel's commitment to growing junior golf led him to a young Tony Finau, who was in need of a place to practice his golf game. Mark granted Tony free access to his golf course, offered him lessons, and has continued to support Tony throughout his golf career. Last, we meet Flo Meiler, an 85-year-old pole vaulter who took up the sport at age 65. Drawn to the sport simply because it seemed like a fun challenge, Flo was determined to give the sport a try. Her dedication to staying active ultimately led Flo to compete and medal in the Senior Games, where she continues to be at the top of her game.

[Educational Message: Viewers learn the importance of remembering your humble beginnings after finding success, and how to appreciate the people who helped you achieve your goals. Mentoring the next generation is a wonderful way to pay it forward and show gratitude for your success. It's difficult to try again after failing, but if you find the courage to keep pushing through failure, your eventual success makes for an even sweeter reward. You're never too old to try new things, so never let inexperience be a roadblock to reaching a new goal.]

Airdate: 5/9/2020

Time:

Duration: 30:00

EARTH ODYSSEY WITH DYLAN DREYER

MALAYSIA [EDD201]

Today on Earth Odyssey, host Dylan Dreyer takes us to Southeast Asia to the diverse country of Malaysia. Malaysia is one of seventeen countries identified as megadiverse, meaning these countries harbor the majority of Earth's species. First up we'll meet a group of proboscis monkeys and learn more about their jungle habitat. We'll discover that proboscis monkeys are named for their noses, where "proboscis" means a long, flexible snout. Next, we'll learn more about a fascinating plant species known as a pitcher plant. Known as carnivorous plants, there are roughly ninety known species of pitcher plants, also known as "nepenthes," across the world. We'll discover how these unique plants have adapted over time to attract and trap their next meals. Finally, we'll meet one of the most endangered animals in the world. Found only in Malaysia and Indonesia, the orangutan is one of our closest cousins sharing over ninety-seven percent of their DNA with humans. We'll discover that orangutans can naturally live up to around forty years old in the wild and over sixty years in captivity.

[Educational Message: The orangutan and the other amazing animals we learned about make up the diversity that gives Malaysia one of the most fascinating pallets of wildlife in the world. We must do our part to protect the natural world around us for future generations to come.]

Airdate: 5/9/2020

Time:

Duration: 30:00

EARTH ODYSSEY WITH DYLAN DREYER

THAILAND [EDD202]

Today on Earth Odyssey, host Dylan Dreyer takes us on an adventure to Thailand where we meet an array of exotic plants and animals. Thailand was previously known as “Siam” from the 12th century until it was renamed “Thailand” in 1939. Surrounded by four countries, and between two seas, Thailand is a melting pot for wildlife across the region. First up, we’ll meet a predator that sits at the top of the food chain, the Indochinese tiger. We’ll learn that Thailand is thought to contain one of the largest populations of these cats in the world. We’ll discover that with their powerful, long hind legs, tigers can jump distances up to thirty feet. Next, we’ll visit with a family of Assamese macaques, one of the five species of Old World Monkeys that call Thailand home. We’ll learn that there are more than twenty gregarious, or social, Old World macaque species known in the world. We’ll also discover that all macaques live in Asia except for one species, the Barbary macaque, which lives in North Africa. Finally, we’ll journey to the fascinating underground caves of Thailand. Here we learn how various cave dwelling species such as bats, snakes, and otherworldly insects navigate and survive in the darkness.

[Educational Message: Senses must be finely tuned to survive in the caves of Thailand, as well as everywhere else in this exotic land. From mammals to insects, we’ve learned that every animal has a specific function to help them survive each day.]

Airdate: 5/9/2020

Time:

Duration: 30:00

CONSUMER 101

ZERO MPH CAR TEST [CNR221]

Host Jack Rico and the experts at the testing labs will explore the pros and cons of smart doorbells, show us how to test drive a car without driving it, and we’ll get some helpful tips from experts. First up, Jack meets with an auto expert to find out what to look for when buying a new car. But there are many things to consider before taking the car out for a test drive. We’ll learn that it’s important to make sure you’re seated comfortably in the car. We’ll discover that you want to sit at least ten inches from the steering wheel as it maximizes airbag deployment and reduces possible harm to you. We’ll also learn that visibility is critical when choosing a new car. Always ensure you can see out over the hood and that blind spots aren’t too obtrusive. Also, it’s important to find a car with simple controls that you can easily operate while driving without distraction. Next, Jack receives some helpful tips and advice from a variety of experts. One tip we’ll learn is that it’s important to shake up your sunscreen before applying as it helps mix up any particles that might have clumped together. We’ll also discover the best insect repellants to use when outdoors that can also help to prevent ticks. Finally, we’ll discover more about the technology behind smart doorbells and the benefits of owning one. We’ll meet with an expert and learn how smart doorbells are scientifically tested in various settings to determine the best model for your needs. We’ll also discover more about the advanced features now becoming available on smart doorbells such as facial recognition, voice control, and geofencing.

[Educational Message: In this episode, we learned how best to evaluate a new car purchase before taking it for a test drive. In order to ensure your safety, it's important to get to know the car before purchasing it. We learned that it's best to ensure you have adequate visibility and comfort when sitting in the driver's seat. By better understanding a car before you buy, you can be confident that you'll be safer on the roads.]

Airdate: 5/9/2020

Time:

Duration: 30:00

VETS SAVING PETS

A LEG TO STAND ON [VSP219]

Today on Vets Saving Pets, a dog named Gizmo arrives at the clinic with an injured knee, a boxer pup is having heart troubles, and a Shih-Poo puppy's hind legs aren't working. First up, a rescue dog named Gizmo is brought to the clinic after injuring its knee while playing. Dr. Ringwood, the clinic's surgeon, examines Gizmo and discovers that the cranial cruciate ligament in her knee has been ruptured. Here we learn that if the knee ligament isn't surgically repaired, Gizmo will develop arthritis and lameness over time. Dr. Ringwood proceeds with the surgical procedure and repairs Gizmo's injured knee using a surgical plate and screws. Next up, a boxer named Chloe has been referred to the clinic because of potential heart issues. Chloe has had recent episodes of collapsing, so she will meet with Dr. Williams, the clinic's cardiologist, for an echocardiogram exam. After the results come in, Dr. Williams is concerned that Chloe is suffering from cardiomyopathy, which means she has an irregular heartbeat that can cause fainting or sudden heart failure. Dr. Williams will prescribe Chloe medication to prevent the problem from worsening and will continue monitoring her progress. Finally, a Shih-Poo named Niko arrives at the clinic having trouble moving his hind legs. Dr. James, the clinic's neurologist, visits with Niko to figure out the cause of his mobility problems. Dr. James performs X-rays on Niko that reveal narrow disc space in the dog's spinal cord. Due to the high-risk surgery needed to treat the condition, Dr. James will also perform a computerized tomography scan, or CT scan, of the spinal cord to confirm the exact location of the disc contusion. We learn that a CT scan provides more detail by combining a series of X-rays that create a cross-section image of bones, blood vessels, and soft tissue inside the body. Once confirmed, Dr. James performs the delicate surgery needed to decompress Niko's spinal cord and restore mobility to his legs.

[Educational Message: Veterinarians must have passion and empathy for not only their animal patients but the patients' owners as well. Veterinarians working in emergency animal medicine are often faced with serious and severe cases. Learning how to effectively communicate and empathize with pet owners is an important skill for a successful veterinary career.]

Airdate: 5/9/2020

Time:

Duration: 30:00

ROOTS LESS TRAVELED

CONNECTING TO THE CIVIL WAR [RLT106]

Today on Roots Less Traveled, host Faruq Tauheed takes father and daughter Paul and Kalina to the Civil War battleground of Port Republic, Virginia. Here they will discover Paul's great grandfather, Austin D. Springer, was a drummer boy for the Union Army. We'll find out that officers directed the musicians to play certain songs that communicated orders to the soldiers. At the battlefield of Port Republic, Paul and Kalina learn that Austin Springer was taken prisoner by the Confederate Army in 1862. Based on historical evidence, it's believed that Austin Springer stayed behind to help the wounded rather than fleeing the

invading Confederate Army, leading to his swift capture. However, Paul and Kalina discover that Austin Springer eventually escaped capture and hid in slave huts until he made his way back to the Union Army. In order to better understand the conditions soldiers faced during this time, Paul and Kalina will join a Civil War re-enactment group to learn what it took to live as a soldier in the Union Army at that time. Paul, a Navy veteran who served in the Vietnam war, connects his own experience and believes that being a combat Veteran is in his genes.

[Educational Message: In this episode, Paul and Kalina connect to a side of their family history that was previously unknown to them. They discovered that their relative Austin Springer served in the Union Army and was taken prisoner by the Confederate Army after he decided to stay behind and take care of the wounded. Paul draws from his own experiences serving in the Navy and feels a deep connection to Austin Springer's courage and resilience. This experience brings Paul and Kalina closer together and gives them a new understanding of where they come from.]

Airdate: 5/9/2020

Time:

Duration: 30:00

THE CHAMPION WITHIN

THE POWER OF WILL [HOC408]

First, we hear from race car driver Will Power about the importance of determination and perseverance in reaching your ultimate goal. One of the best Indy car drivers of his generation, it took Will years at the top of the podium in other races before he was finally able to capture that elusive number one spot at the Indy 500. Next, we learn how PGA pro Cameron Champ's grandfather paved the way for his success in the sport. Cameron's grandfather taught him the game of golf, and was his biggest supporter on his rise through the ranks. For all the support given to him over the years, Cameron even had his grandfather caddie for him the first time he played the First Tee Open at Pebble Beach, helping his grandfather realize a dream that he never had the opportunity to fulfill when he was Cameron's age. Then, we meet rising swim star Carson Foster, who broke one of his idol Michael Phelps's national age group records at just 10 years old. Carson's brother and sister are also swimmers, and we see how a friendly sibling rivalry can push each to do their best, helping each other to become stronger swimmers together. Later, we meet Bryson Dechambeau and hear about how a televised golf tournament helped his father reconnect with Ron, an old friend from his school days. After meeting again, Ron realized he could help Bryson's father by donating a kidney, a selfless gesture for which Bryson and his father are forever grateful.

[Educational Message: It's okay to feel disappointed and frustrated if you don't reach your goals as quickly as you would have hoped, but it's important to eventually work through your emotions to rebound with a positive attitude. Be grateful for the opportunities you are afforded today and remember that others who came before laid the groundwork for your success. There is value in supporting your competitors; when everyone does well, it pushes you to do your best.]

Airdate: 5/16/2020

Time:

Duration: 30:00

EARTH ODYSSEY WITH DYLAN DREYER

VENEZUELA [EDD203]

Today on Earth Odyssey, host Dylan Dreyer takes us to one of the longest and largest rivers in the world: The Orinoco River. First, we learn that the Orinoco River curls around the Northeast corner of South

America, draining more than three hundred and eighty thousand square miles of Venezuela, Colombia, and Brazil. At the river's mouth, the Orinoco Delta stretches three hundred miles along the coast of Northeast Venezuela. We'll also discover that the wet and dry seasons of the Orinoco River's climate are controlled by the north to south migration of trade winds. Next, we'll take a closer look at the four-eyed fish, one of the stranger creatures that calls the Orinoco River home. But we'll discover that these creatures actually have two eyes, each split in half so it can focus above and below the surface. Like primitive mudskippers, we'll learn that four-eyed fish occasionally beach themselves in search of food. Finally, we'll meet the only people to have made the Orinoco Delta their permanent home. Known as the "canoe people," the Warao have chosen a precarious way of life on the Orinoco. Here we'll learn how these people have designed and constructed their homes to withstand the twice daily floods that occur. However, we'll discover that these riverside homes are not permanent. When the support timbers rot or food becomes scarce, the nomadic Warao people will seek out a new home.

[Educational Message: The many long-time locals of the Orinoco give back to the river as much as they receive, continuing a tradition as old and beneficial as the river itself. The Orinoco River holds many of the spectacular natural wonders we know today. We must all do our part to protect and preserve nature.]

Airdate: 5/16/2020

Time:

Duration: 30:00

EARTH ODYSSEY WITH DYLAN DREYER

AMAZON [EDD204]

Today on Earth Odyssey, host Dylan Dreyer takes us on a journey to South America to the dense and bustling Amazon Rainforest. Formed over the last fifteen million years, the Amazon covers three million square miles of South America. Today, sixty percent of the Amazon lies in Brazil, while the remaining forty percent is spread across eight more countries. This vast rainforest straddles the equator making it permanently hot and wet, the ideal conditions for creating and maintaining life. First up, we'll meet with a group of red howler monkeys that call the Brazilian Amazon home. Weighing in as one of the heaviest monkeys in the forest, we'll witness how these animals have adapted to a life in the trees. Next, we'll come down from the canopy and discover more about the insects teeming on the forest floor. Here we'll learn how army ant colonies are made up of several groups with specific jobs including foragers and defenders. We'll also discover how over three hundred species of birds and butterflies rely on army ants for survival. Finally, we'll visit with a sloth and learn more about how this species has adapted to life in the Amazon. We'll learn that sloths spend their entire lives in just a handful of trees, only coming to the ground once a week. Also, we'll discover that modified muscles allow a sloth to hang for hours in positions other mammals would find impossibly uncomfortable.

[Educational Message: Being dependent on one habit and food source makes animals like the sloth very vulnerable to change. But such specialized ways of life are one of the reasons the Amazon is so diverse. We've only just scratched the surface of the marvels within this lush, life-giving ecosystem. We must all do our part to protect it.]

Airdate: 5/16/2020

Time:

Duration: 30:00

CONSUMER 101

FOLLOW THE BEAT [CNR222]

Host Jack Rico and the experts at the testing labs will give us a fascinating look at what happens to sound in an anechoic chamber, show us how best to clean a dirty car, and teach us the science behind air conditioner testing. First up, we'll meet with an expert to learn how best to clean a dirty vehicle. We'll find out that cup holders trap a significant amount of dirt and debris. We'll learn some cool tricks and tips on how to easily remove mess from small spaces using cotton swabs and wooden skewers. We'll also discover that objects like the steering wheel and gear shifter should be cleaned often, even if they don't look dirty. These touch areas can harbor dangerous germs and bacteria, so it's important to keep those clean. Next, we'll visit the lab with a home expert to find out the science behind air conditioner testing. In a climate-controlled chamber, we'll see how experts measure the effectiveness of various types and sizes of air conditioners. Testers can also change the size of the control room to replicate different sized spaces of rooms. Using thermocouples, or electrical sensors that measure temperatures, testers can scientifically determine exactly how well the various air conditioners perform. Here we'll learn about the various sizes of air conditioners and how to pick the best one for your home. Finally, we'll visit an echo-less room, known as an anechoic chamber. Here we'll learn how an anechoic chamber is specifically designed to absorb all sound waves in a particular area. We'll join an expert and discover the many scientific uses of an anechoic chamber. We'll learn that echoes interfere with scientific measurements and that it's critical to eliminate any sound waves in order to discover the true sound of a product. We'll also join a group of high school music students as they test out various musical instruments to see how they sound differently in an anechoic chamber.

[Educational Message: In this episode, we learned about the importance of keeping your car clean and tidy. Food waste and other garbage can attract pests and bacteria. It's important to keep trash out of your car and clean high touch areas to prevent the spread of germs. Also, you don't want to keep heavy things like large water bottles in your car as these objects can become projectiles in the event of an accident or even heavy braking.]

Airdate: 5/16/2020

Time:

Duration: 30:00

VETS SAVING PETS

PATIENCE OF A SAINT [VSP220]

Today on Vets Saving Pets, a kitten arrives with a suspected congenital heart defect, a litter of puppies are having their hearing tested, and a St. Bernard's legs begin to fail. First up, a St. Bernard puppy named Harley arrives at the clinic having problems dragging her feet. Harley was referred to Dr. James, the clinic's neurologist, for additional testing to try and determine the potential cause. Dr. James performs neurological exams to attempt to localize the root of the problem. After discovering an abnormality in Harley's spine that may be decompressing her spine, Dr. James orders a CT scan to get a clearer image of the issue. Assisted by a veterinary intern, Dr. James uses this moment to help teach her intern about some of the neurological disorders she may encounter in her future career. Harley will undergo a risky surgery to decompress her spine and help restore normal mobility. Next, a dog breeder arrives at the clinic to have hearing tests performed on her litter of Havanese puppies. Dr. Cochrane, a neurologist at the clinic, will be administering a brain stem auditory evoked response test to confirm the puppies don't suffer from deafness. This test is performed by placing electrodes in the scalp of the patients to test how their brains process the sounds they hear. Finally, a young kitten named Loki is brought into the emergency clinic suffering from a heart murmur. Dr. Williams, the clinic's cardiologist, performs an ultrasound to determine the extent of Loki's heart defect. Dr. Williams confirms that Loki is suffering from a rare condition known as ventricular septal

defect, which means the cat has a hole in its heart. Dr. Williams determines that the defect will not affect the cat's health and that Loki should live a long, happy life.

[Educational Message: Veterinarians dedicate their lives to helping both animals and their owners. In this episode, we see the compassion of veterinary professionals as they are determined to find ways to treat their patients. We all need to find ways to show more caring and kindness to others in our daily lives.]

Airdate: 5/16/2020

Time:

Duration: 30:00

ROOTS LESS TRAVELED

CONNECTING TO WHALERS [RLT107]

Today on Roots Less Traveled, host Faruq Tauheed takes brother and sister Ashley and Elliott back to their grandparents' hometown of Martha's Vineyard, Massachusetts. During their trip, they get a sailing lesson and learn that their five-times great grandfather, Henry Osborn, was taken prisoner on a boat in the Revolutionary War. We'll learn that the American Revolutionary War took place from April of 1775 to September of 1783. On their sailing lesson, Ashley and Elliott will learn what it would have been like to be a shipmate on a similar sea vessel during that time. We'll find out that sailboats have been used throughout human history beginning as early as 1200 BCE. Ashley and Elliott soon discover that their three-times great-granddad, Samuel Osborn, went from debtor's prison to owning a fleet of whaling ships. Not only did Samuel Osborn represent an incredible "rags to riches" story, we'll also find out he was hailed as a local hero in 1871. It was common at the time for vessels from Massachusetts to venture into the Arctic to hunt the regional bowhead whale. On one particular voyage, weather proved to be disastrous and left thirty-three whaling ships stranded in icy peril. We'll find out that Samuel Osborn sent ships of his own to rescue the men, helping to bring more than a thousand people home safely. We'll discover that whaling in the Americas peaked from the late 1700s through the mid-1800s. At its peak, the whaling industry was the fifth largest economic sector in the United States. A surprise visit from Ashley and Elliott's parents allows them to share their newfound family history.

[Educational Message: In this episode, Ashley and Elliott discovered many unknown facts about their family history in Martha's Vineyard, Massachusetts. The two learned that their three-times great-grandfather, Samuel Osborn, went from debtor's prison to becoming a wealthy businessman. Not only did Samuel achieve great success, he became a local hero and savior in the Martha's Vineyard whaling community. Samuel Osborn's underdog beginnings and eventual heroic efforts as a whaler resonated deeply with Ashley and Elliott. In the end, Ashley and Elliott get to share this information with their parents, strengthening their connection to Martha's Vineyard and to each other.]

Airdate: 5/16/2020

Time:

Duration: 30:00

THE CHAMPION WITHIN

GOING FOR GOLD: BACK FLIPPING FORWARD [HOC409]

First, we hear inspiring stories about some of the athletes from the U.S. men's and women's swim teams at the Rio Games, which consisted of 30 first time Olympians and 26 first time medalists, including Simone Manuel, who became the first African-American female swimmer to win individual gold. Women's swimming became an Olympic event in 1912 at the Stockholm Games, and the United States holds the

record in Olympic swimming with 553 medals. Next, we learn more about the indelible mark swimmer Michael Phelps made on the sport as the most decorated Olympian of all time, achieving feats that will likely never be repeated. Michael Phelps made his Olympic debut at the 2000 Summer Olympics and completed his swimming career at the 2016 Rio Games, finishing with a total of 28 medals. Then, we look back at some of the memorable moments from the U.S. women's gymnastics team's historic performance at the Rio Games. The first time women competed in gymnastics at the Olympics was 1936 in Berlin. Lastly, we learn about sports writer and golf amateur Nick Edmund's mission to make a difference after a cancer diagnosis by walking 1,200 miles along the Wild Atlantic Way in Ireland and playing the fourth hole at 40 different golf clubs along the way to raise awareness for cancer. The Wild Atlantic Way is a tourism trail on the west coast of Ireland that stretches 1,553 miles.

[Educational Message: Greatness can be defined in more ways than winning a gold medal-- it can be achieved by being a leader, supporting others, and not giving up. Viewers learn about the hard work and perseverance it takes to win a medal at the Olympics, the history of Olympic swimming and Olympic gymnastics, and the importance of maintaining a positive attitude during a challenging time.]

Airdate: 5/23/2020

Time:

Duration: 30:00

EARTH ODYSSEY WITH DYLAN DREYER

PATAGONIA [EDD205]

Today on Earth Odyssey, host Dylan Dreyer takes us to South America where the region of Patagonia hosts a wide variety of animals. Stretching from Argentina to Chile, Patagonia is home to the largest dinosaur fossil ever found, the second oldest tree on Earth, and a species of flightless bird that almost outnumbers humans. First up, we'll meet a colony of Magellanic penguins that just returned to the shores of the Punta Tombo Reserve after spending six months at sea. Here we'll learn that the Punta Tombo Reserve in Patagonia hosts the largest known colony of Magellanic penguins in the world. We'll discover that penguin couples always return to the same nest year after year to breed. We'll also learn that penguins have a special filter near their eyes that allows them to expel salt if they accidentally swallow sea water. Next, we'll meet a group of beavers living in Patagonia and learn how they adapt to the changing seasons. Well adapted to aquatic environments, we'll discover that beavers can swim within twenty-four hours of being born. Finally, we'll learn about the guanacos of Patagonia. We'll discover that llamas descended from guanacos that were domesticated in South America over six thousand years ago. Supremely adapted to surviving in the cold elements, guanacos have a double coat of fur that helps them cope with the extreme temperatures.

[Educational Message: Patagonia is one of South America's last great wildernesses, making it one of the most fascinating regions in the world. The low plains, high mountains, and icy glaciers give this land the diversity it needs to be home to a variety of animals. The ability to adapt to one's environment is critical to ensure survival.]

Airdate: 5/23/2020

Time:

Duration: 30:00

EARTH ODYSSEY WITH DYLAN DREYER

THE PANTANAL [EDD206]

Today on Earth Odyssey, host Dylan Dreyer takes us on a journey to the wild Pantanal region of South America. Known as the largest wetland in the world, the Pantanal is ten times larger than the Everglades in Florida. Situated in the center of South America, the vast majority of the Pantanal lies in Brazil, while the rest is in Bolivia and Paraguay. We'll learn that the Pantanal wetlands are estimated to be larger than roughly twenty-nine U.S. states combined. First up, we'll discover more about the fascinating species of birds that call the Pantanal wetlands home. We'll witness the daily routines of local birds such as parakeets and macaws. Second only to the hyacinth macaw, we'll learn that red and green macaws are one of the largest parrot species on Earth. Next, we'll discover more about the predators roaming the Pantanal wetlands, such as the jaguar. Weighing over two-hundred pounds, the jaguar is one of the heaviest cats in the world. Here we'll learn that due to a large supply of food, jaguars in this region are twice the size of other jaguars found in Latin America. Finally, we'll journey to one of the mightiest waterfalls in the Americas, Iguazu Falls. Shaped like a giant horseshoe, Iguazu Falls is made up of two-hundred and seventy-five falls dropping over two-hundred feet into a narrow chasm. Stretching almost two miles across, we'll also learn that Iguazu Falls is nearly three times the width of Niagara Falls.

[Educational Message: All of the rivers from the Pantanal eventually flow into the Rio Plata, creating the second largest river basin on Earth. The Pantanal plays a crucial role in controlling this massive volume of water, acting like a giant sponge. During the wet season, it acts as a natural break, preventing flash floods from hitting Southern Brazil, Paraguay, and Argentina. During the dry season, it becomes a vital reservoir.]

Airdate: 5/23/2020

Time:

Duration: 30:00

CONSUMER 101

CANCELING NOISE AND THE SECRETS OF SAFE RIDING [CNR223]

Host Jack Rico and the experts at the testing labs will show us how to safely share the road when riding a bike, teach us the science behind noise cancelling headphones, and show us how to keep winter ice out of your pipes. First up, we'll join auto experts on the test track to learn how to safely share the road on a bicycle. Today, we'll find out how to safely operate a car near a bicyclist, as well as how to safely ride your bicycle near moving cars. We'll first discover that you should always allow three feet or more of space between you and a cyclist when driving a car. We'll also learn that you never pass a cyclist on a blind turn. Additionally, as a driver, you should always be aware of your blind spots and must allow cyclists to pass before making right turns. As a cyclist on the road, we'll learn you should always have your bike maintained before taking it out on the road. Additional safety precautions such as bike lights and reflective or bright clothing are critical. Here we'll also learn about the various hand signals cyclists must use to alert cars around them. It's also important to never use headphones while riding a bicycle to ensure you can always hear your surroundings. Next, we'll join an expert and visit the anechoic chamber in the testing labs to find out how noise cancelling headphones are evaluated. Here we'll witness how noise cancelling headphones are scientifically measured and tested for their effectiveness. We'll discover how soundwaves work and how they're comprised of two main components, compressions and rarefactions. Finally, we'll meet with a home expert to learn how to keep the pipes in your home from freezing up during the winter. If the temperature outside drops below freezing, and your pipes aren't well insulated, the water inside can turn to ice and burst your pipe. Even a small hole can release hundreds of gallons of water and cause thousands of dollars' worth of damage. We'll get expert tips on how to ensure your home is ready for winter and what to do in the event of a water emergency.

[Educational Message: In this episode, we learned how to safely use your bicycle on the roads. Sharing the road with cars can be very dangerous, so it's critical that you follow all the necessary safety precautions. Always wear bright, reflective clothing and ensure you have safety lights on both the front and back of your bicycle. Also, always be aware of your surroundings and never wear headphones while riding your bicycle.]

Airdate: 5/23/2020

Time:

Duration: 30:00

VETS SAVING PETS

THE K9'S CANINE [VSP214]

Today on Vets Saving Pets, a cat is brought to the clinic with bladder issues, a Police K-9 arrives with a broken tooth, and a long-time patient has a coughing issue. First up, a long-time canine patient named Rusty arrives at the clinic with a minor coughing issue. Dr. Williams, the clinic's cardiologist, meets with Rusty to find out the cause of Rusty's recent coughing. Rusty has suffered from an arrhythmia, or irregular heartbeat, for several years. Dr. Williams decides to perform an electrocardiogram, or EKG, to determine if Rusty's condition has worsened. Next, a cat named Trigger has been admitted to the emergency clinic with a urinary blockage. Dr. Bryer, the clinic's head emergency veterinarian, suspects that Trigger is suffering from feline lower urinary tract disease, which is preventing the cat from urinating. Here we learn that this disease is a serious condition that can lead to severe heart problems and even sudden death. Dr. Bryer will prescribe Trigger with antibiotics to help aid the cat's recovery. Finally, a Police K-9 named Jax is brought to the clinic with a broken tooth in need of repair. Dr. French, the clinic's veterinary dentist, will examine Jax's mouth to determine the extent of the tooth fracture. After performing X-rays, Dr. French finds that Jax's tooth is severely damaged and may need to be extracted. Following further examination, Dr. French is able to perform a root canal that will allow Jax to continue his job as a Police K-9.

[Educational Message: Education is critical to the success of these veterinary specialists. Working in the veterinary field is a rewarding career path but will require much skill and dedication.]

Airdate: 5/23/2020

Time:

Duration: 30:00

ROOTS LESS TRAVELED

CONNECTING TO THE PAST [RLT108]

Today on Roots Less Traveled, Host Faruq Tauheed takes us back to look at some of our most memorable moments. First, we'll follow Rob and Michelle to Mexico City. Their journey includes a trip to the ornate National Palace where they learn that their second cousin Ernesto gave the keys to Mexico City to President John F. Kennedy. Rob and Michelle also discover that their third cousin Manuel Uruchurtu died on the Titanic, after giving up his seat on a lifeboat to a woman in need. Next, we go to Cuba where uncle and nephew Al & Jr. bond while learning that Al's grandfather Joseph Barlow owned thirty-two blocks in downtown Havana. We'll learn that Joseph Barlow once owned the Barlow-Cuba Company of Havana. Appraised at over \$4 million during the early 1900's, the Barlow-Cuba Company was an extremely successful business. But due to an unfortunate turn of fate, Joseph Barlow lost his riches in a political coup. Finally, we go on a historical Tennessee adventure with mother and son Sharee and DeVonn. At a visit to the Tennessee Supreme Court, Sharee and DeVonn will learn that their four-times great grandfather Larkin Ford was part of an 1840s landmark Tennessee court case. Larkin Ford was a slave whose owner granted him his freedom and left him property in his will years before the Emancipation Proclamation declared an

end to slavery in the United States. Although the will was contested, the court ultimately ruled in Larkin Ford's favor, and he went on to become a delegate in the Republican Party, helping to elect African American officials into Tennessee government.

[Educational Message: By learning more about our past, we can learn more about ourselves and where we come from. In this episode, we witnessed several stories of family members discovering incredible information about their historical roots that was previously unknown. By filling in the gaps of their history, these family members are able to forge stronger connections with each other in the present.]

Airdate: 5/23/2020

Time:

Duration: 30:00

THE CHAMPION WITHIN

GOING FOR GOLD: MORE THAN AN ATHLETE [HOC410]

First, we meet fencer Kamali Thompson and learn how she balances her life as a medical student while training to achieve her goal of winning a gold medal at the Olympics. Fencing made its Olympic debut in 1898; and there are three types of fencing swords: foil, epee, and sabre. Next, we learn how injured military veteran Mike Morales finds solace in playing golf and how it helps him recover physically and mentally. Posttraumatic stress disorder is a psychiatric disorder that can occur in people who have experienced or witnessed a traumatic event. Then, we learn how Olympic sprinter Noah Lyles balances his two passions, running and art. Sprinters use spikes with no cushioning because all of their running is done on the ball of their foot. Lastly, we meet cyclist Annemiek van Vleuten, learning about her comeback after a terrible crash during the 2016 Rio Olympics cost her the gold medal. After her recovery, Annemiek returned to cycling to ultimately win a world title, inspiring viewers to keep pushing for their dreams when it may seem the race has been lost.

[Educational Message: Finding the courage to try again after failing or to try something new can lead to different opportunities, newfound interests, and success. Viewers learn about the sport of fencing, ways to balance two passions, how sports can be therapeutic, and the importance of having versatility and outlets to express yourself.]

Airdate: 5/30/2020

Time:

Duration: 30:00

EARTH ODYSSEY WITH DYLAN DREYER

THAR DESERT [EDD207]

Today on Earth Odyssey, host Dylan Dreyer takes us on a journey to one of the biggest and most populated deserts in the world. Situated in Northern India, the Thar Desert is also known as the Great Indian Desert and is the seventh largest desert in the world. Temperatures here can soar to over one-hundred and twenty degrees Fahrenheit and less than two inches of rain falls each year. We begin on the Thar Desert's eastern edge in the city of Jaipur, the capital and largest city in India. Here we'll meet the rhesus macaques that live in the city of Jaipur. While macaques traditionally live in forests, Jaipur has expanded into their natural habitat and the monkeys have now adapted to city life. Here we'll witness the dynamics of how humans and macaques coexist in a crowded and bustling city. Next, we'll travel to the Aravalli Hills region of the Thar Desert to meet India's most iconic predator, the Bengal tiger. The Aravalli Forest is home to around thirty of India's remaining fifteen-hundred Bengal tigers. At nearly one-hundred and fourteen decibels, we'll learn that a Bengal tiger's roar can be heard up to two miles away. Also, we'll discover that a Bengal tiger's

camouflage stripe pattern is unique and that no two tigers have the exact same pattern. Finally, we'll witness the incredible migration of the remarkable demoiselle crane. To escape Asia's bitter winters, the demoiselle crane migrates over two-thousand miles to the Thar Desert each year. Battling freezing winds and thin air, these cranes will even fly over the top of Mt. Everest during their journey. Here we'll also discover that demoiselle cranes are the most common and smallest known species of crane.

[Educational Message: So harsh yet so full of life, the Thar Desert has always been a place where people and animals have needed each other. The Thar is home to more creatures than any other desert in the world because its people have a long tradition of respect for nature. We must all do our part to respect and protect our natural world.]

Airdate: 5/30/2020

Time:

Duration: 30:00

EARTH ODYSSEY WITH DYLAN DREYER

PHILIPPINES [EDD208]

Today on Earth Odyssey, host Dylan Dreyer takes us on a journey to Southeast Asia where lies the island chain of the Philippines. The Philippines are made up of over seven-thousand tropical islands in the Western Pacific Ocean. Among the most ancient islands on Earth, the Philippines have the world's fifth longest coastline. We'll also learn how the islands were named after King Philip II, who ruled Spain during the sixteenth-century age of exploration. First up, we'll visit the dense rainforests of the Philippines to discover more about the plant and insect species that inhabit the region. We'll learn more about the forest scorpion and how it uses a special venom to subdue its prey. We'll discover that some scientists believe scorpions were one of the first species to switch from water to land dwellers. Next, we'll visit with a creature unique to this region, known as a binturong. One of the Philippines' rarest and most elusive animals, the binturong is one of the few Old World mammals that has a fully prehensile tail. Also known as a "bearcat," we'll learn that the binturong's closest relatives are the African civet and genet. Finally, we'll journey underground to the fascinating cave systems of the Philippines. We'll learn how caves are formed when groundwater that is slightly acidic erodes the rock away until forming a hole. Here we'll discover how bats, scorpions, spiders, and other unique creatures adapt and thrive in the darkness of the caves.

[Educational Message: The Philippines are home to some of the rarest animals on Earth as many of these ancient islands are isolated and undisturbed. As a result, many unique species have flourished, uninterrupted by the modern world.]

Airdate: 5/30/2020

Time:

Duration: 30:00

CONSUMER 101

HOT CAR STORIES – TRUE OR FALSE [CNR224]

Host Jack Rico and the experts at the testing labs will show us the dangers of leaving pets and children in a hot car, how to choose the best pots and pans for making a great meal, and how to prep your air conditioner for the summer. First up, Jack meets with an auto safety expert to discuss how quickly your car can heat up and create a potentially life-threatening situation if any loved ones or pets are left behind. We'll be going to the auto test center to measure and demonstrate exactly how hot these cars can get when unattended. Today we'll be conducting an experiment to see if the color of the car makes a difference in how hot it can get.

Also, we'll be testing if cracking the windows makes a difference in the car's temperature. Using thermometers and timers, we'll witness how these experiments are scientifically conducted to accurately measure how hot the interior of the car gets, and why you should never leave children or pets in a car unattended. Next, we'll meet with an expert for tips on how to pick the best pots and pans for your kitchen. We'll discover that non-stick pans are the ideal choice for cooking delicate foods such as eggs or other items that don't require high heat. We'll learn that stainless steel pans are the best option for searing foods at high temperatures. Here we'll witness how experts scientifically test pots and pans for their performance with various foods and ranges of temperature. Finally, we'll get some helpful tips from an expert on how to maintain your air conditioner and prepare it for the summer. We'll discover that window air conditioners can harbor mold and other irritants, so it's always a good idea to store it in a dry place during the offseason. Also, always clean the air filter at the beginning of each season and be sure to wash it every month thereafter.

[Educational Message: In this episode, we learned about the dangers of leaving children and pets in cars unattended. While you should never do this at any time of the year, it's especially dangerous during the summer months. We witnessed how hot cars can get when sitting in the sun for only a short period of time. This can become a life-threatening situation for a child or pet. Always practice safety and never leave children or pets in your car unattended.]

Airdate: 5/30/2020

Time:

Duration: 30:00

VETS SAVING PETS

NINE LIVES AND COUNTING [VSP215]

Today on Vets Saving Pets, a Bengal cat that can't seem to pounce, a miniature poodle has a cancerous tumor on his jaw, and a cat named Enzo arrives at the clinic with a serious head wound. First up, an elderly miniature poodle named Dudley arrives at the clinic to have a cancerous tumor removed from its jaw. Dr. Boyd, the clinic's surgeon, will be performing a CT scan to see how far the tumor extends into Dudley's jaw. After confirming the placement of the tumor, Dr. Boyd will need to perform a risky surgical procedure to remove the cancer from Dudley's jaw. Next, a pet Bengal cat named Simba arrives at the clinic suffering from mobility issues. Dr. James, the clinic's veterinary neurologist, meets with Simba and quickly determines that the cat's peripheral nerves are being severely affected. Dr. Boyd recognizes this condition to be common in this breed of cat and prescribes corticosteroids to help restore Simba's mobility. Finally, a cat named Enzo arrives at the clinic with a serious head wound suffered during a fight with another cat. Dr. Bryer, the clinic's emergency medicine veterinarian, will examine Enzo's injury to determine the best treatment for recovery. After discovering that the wound has been infected, Dr. Bryer and team will have to clean and flush the area to determine if surgery will be necessary. Once the area is shaved and cleaned, Dr. Bryer confirms that surgery will not be needed and prescribes Enzo with antibiotics to aid in his recovery.

[Educational Message: Veterinarians can specialize in many different areas of medicine, such as critical care, oncology, cardiology, neurology, anesthesiology, dermatology, dentistry, surgery, and more. Education is critical to the success of these specialists. Working in the veterinary field is a rewarding career path but will require much skill and dedication.]

Airdate: 5/30/2020

Time:

Duration: 30:00

ROOTS LESS TRAVELED

CONNECTING TO A LANDMARK COURT CASE [RLT103]

Today on Roots Less Traveled, host Faruq Tauheed takes mom and son duo, Sharee and DeVonn, on a trip to Nashville, Tennessee. We'll first find out that Nashville is named after an American Revolution general, Francis Nash. Additionally, we'll discover that after the Civil War, Tennessee was the first state to rejoin the Union on July 24th, 1866. At a visit to the Tennessee Supreme Court, Sharee and DeVonn will learn that their four-times great grandfather Larkin Ford was a part of an 1840s landmark Tennessee court case. In 1840, Larkin Ford was a slave living in Washington County and was owned by American Revolutionary war veteran, Loyd Ford. That year, Loyd Ford drew up a will that would give his slaves their freedom and his land after his death. When Loyd Ford died in 1843, his slaves, including Larkin Ford, sought to validate his will. Loyd Ford's children would contest their father's will through a series of Supreme Court cases. Remarkably, we'll learn that Larkin Ford prevailed and was awarded the very same farm that he worked on as a slave. After being awarded the property, Larkin Ford went on to become a delegate in the Republican Party and helped elect African American officials into Tennessee government. Inspired by this incredible revelation, Sharee and DeVonn volunteer to help register voters in Nashville. We'll learn that Tennessee earned its nickname "The Volunteer State" during the War of 1812.

[Educational Message: When we have a greater understanding of our roots, we can be inspired to do great things in our own lives. In this episode, Sharee and DeVonn discovered that their ancestor Larkin Ford secured his freedom and land before the Emancipation Proclamation and the end of the Civil War. Understanding the significance of this historic Supreme Court case, Sharee and DeVonn have gained a new sense of pride and appreciation for their family history.]

Airdate: 5/30/2020

Time:

Duration: 30:00

THE CHAMPION WITHIN

GOING FOR GOLD: FIRST FOR EVERYTHING [HOC411]

First, we meet teen swimmer Regan Smith, water polo player Johnny Hooper, and mountain bike racer Kate Courtney to learn how they are handling the pressure as Olympic newcomers and preparing to compete in Tokyo. Water polo was introduced in the Olympics in 1900, and mountain biking made its Olympic debut in 1996. Next, we get an indepth look at the volleyball career of Kerri Walsh Jennings and her journey to find the right partner to compete with in Tokyo. Beach volleyball became an official Olympic sport in 1996, and a volleyball player averages around 300 jumps in a single game. Then, we learn how Allyson Felix balances life as a mother and as an Olympian, and she explains how she found a new purpose to succeed after becoming a mother. The 100 meter sprint is the shortest race in the Olympics, and Allyson Felix is already the most decorated female athlete in U.S. track and field Olympic history. Finally, we learn how soccer legend Mia Hamm continues to inspire young soccer players long after her retirement from soccer through her foundation, which teaches that being a good teammate is just as important as being a good player.

[Educational Message: Success alone does not define a great legacy-- how you impact others' lives long after the game is over is just as important. Viewers learn about how to handle pressure when competing at a high level, the history of Olympic volleyball, and the importance of having a supportive relationship with teammates.]

Airdate: 6/6/2020

Time:

Duration: 30:00

EARTH ODYSSEY WITH DYLAN DREYER

PADDLING THROUGH THE PANTANAL [EDD227]

Today on Earth Odyssey, host Dylan Dreyer leads us on an adventure through the rivers of the Pantanal.

Known as the largest wetland in the world, the Pantanal is ten times larger than the Everglades in Florida.

Situated in the center of South America, the vast majority of the Pantanal lies in Brazil, while the rest is in

Bolivia and Paraguay. First up, we'll follow local fisherman and learn how they rely on the waters of the

Pantanal for their survival. We'll discover that the Pantanal is home to an estimated three-hundred and

twenty-five species of fish. We'll learn about the unique fishing techniques that have been used by the local

villages for centuries. Here we'll also learn about the giant river otter that calls the Pantanal region home.

Nearly six feet long and weighing more than sixty-five pounds, it fully merits its name. Unlike most otters,

giant river otters live in groups and hunt in packs. Here we'll discover that giant river otters have an average

lifespan of roughly twelve years in the wild. Next, we'll learn more about one of the top predators in the

Pantanal region, the jaguar. With water to drink, shade from the sun, and a platform from which to spy prey,

overgrown riverbanks are the perfect environment for jaguars. We'll discover that jaguars are excellent

swimmers and have been seen swimming across the Panama Canal. Finally, we'll learn more about the

tufted capuchin monkeys that inhabit this region. We'll discover that these monkeys use the riverside

corridors of the Pantanal to spread south to the Amazon. Capuchins are highly social and have been

observed sharing territories with other primate species. We'll learn that tufted capuchins have also been

observed using objects, such as rocks, as tools to crack open nuts or fruits.

[Educational Message: The wet landscape and warm climate of the Pantanal creates a hub for an incredible number of diverse fish and mammals. The traditions that are still alive in the Pantanal are central to the survival of the local villages.]

Airdate: 6/6/2020

Time:

Duration: 30:00

EARTH ODYSSEY WITH DYLAN DREYER

HIKING THE HIMALAYAS [EDD228]

Today on Earth Odyssey, host Dylan Dreyer takes us on a journey to the Himalayas, where the extreme

landscape doesn't stop the unique diversity that calls this mountain range home. At over sixteen-thousand

feet above sea level, among the most treacherous and untamed mountains in the world, certain highly

adapted species have made the Himalayas their home. First up, we'll learn about the fascinating bar-headed

geese. These geese head south over the Himalayas to the warmer winter-feeding grounds of Northern India.

But traveling more than nine-hundred miles in a single day isn't this bird's only claim to fame. Bar-headed

geese choose to fly at an altitude few other creatures could barely imagine, including humans. We'll

discover that bar-headed geese can fly as high as thirty-thousand feet for brief periods of time. These birds

have even been spotted flying over Mt. Everest, the tallest mountain in the world. Next, we'll discover how

the Himalayas have shaped the cultures of Southern Asia. Many peaks of the Himalayas are seen as sacred,

and religions such as Buddhism have a strong physical presence in the remotest of areas. Prayer flags

flapping in the wind break the silence across the numerous mountain passes. For centuries, Buddhist pilgrims have draped these pennants across valleys and places of spiritual practice for the wind to carry their written prayers across the landscape. Here we'll discover that the colors of prayer flags are said to represent Earth's elements of sky, air, fire, water, and earth. Finally, we'll learn more about the Asiatic black bear that calls the Himalayas home. Despite being similar in size to its American relative, a distinctive cream-colored crescent at the center of its chest gives this Himalayan resident its unique identity. We'll discover that the shape of the crescent on its chest gives this species the nickname "moon bear." Although armed with two-inch long curved claws and canine teeth designed for tearing meat, this predator is primarily a vegetarian. Berries, grasses, roots, and the occasional insect make up the majority of its diet.

[Educational Message: The Himalayas is an unbelievable region in our world. From the ancient cultures that are still practiced today, to the animals that thrive in such harsh environments, this mountain range is one of the most fascinating places on Earth.]

Airdate: 6/6/2020

Time:

Duration: 30:00

CONSUMER 101

TALKING TO THE FUTURE [CNR225]

Host Jack Rico and the experts at the testing labs will teach us about the future of car technology, how to choose the right lawnmower, and how we can keep our information private when using smart televisions. First up, we'll join an auto expert to learn more about the future of technology on the roads. Vehicle to Everything, or V2X, is a newly developed technology that can enable vehicles to communicate with one another. V2X can also share information with the city's infrastructure, communicating everything from road conditions to traffic information and beyond. We'll discover that this technology has been implemented in cities and is already showing positive results. The goal is that V2X can help save lives by being implemented on ambulances, police vehicles, and fire trucks to better allow them to respond to incidents more quickly. Next, we'll meet with a lawn mower expert to learn more about lawn mowers and how to find the best one for your needs. We'll discover that there are many different types of lawn mowers such as push, self-propelled, battery powered, lawn tractor, and zero-turn radius. We'll learn that each mower is specifically designed and suited for different sized jobs. We'll also learn that it's important to wear ear protection when using a lawn mower. Finally, we'll join an expert to learn more about smart televisions and how they might be collecting our personal information. We'll discover that smart televisions are capable of collecting data on our viewing habits via the Automatic Content Recognition technology. Here we'll learn some tips on how to disable these functions and keep our personal information private.

[Educational Message: In this episode we learned about new technology changing the way we stay safe on the road. The new V2X technology is proving to be a vital tool in helping cities manage traffic, busses, and plows. Implementing this technology in emergency response vehicles will help reduce response time and allow help to get where its needed as fast as possible.]

Airdate: 6/6/2020

Time:

Duration: 30:00

VETS SAVING PETS

A BIT OF ELBOW GREASE [VSP216]

Today on Vets Saving Pets, a chocolate Labrador suffers a knee injury, a cat suffers from gingivitis, and an aging dog is having mobility issues. First up, a chocolate Labrador named King has arrived at the clinic after injuring his knee when slipping on a patch of ice. Dr. Boyd, the clinic's surgeon, has diagnosed King with fragmented coronoid process, which means he has small fragments of bone floating in his elbows. Dr. Boyd will first insert a small camera into King's elbow to confirm the diagnosis and then perform surgery to remove the bone fragments. Next, a cat named Parsley arrives at the clinic with serious dental issues. Dr. French, the clinic's veterinary dentist, determines that Parsley is suffering from a severe case of gingivitis. Here we'll discover that gingivitis is an inflammation of the gums and is the earliest stage of periodontal disease. After administering X-rays, Dr. French will perform surgery to remove Parsley's affected teeth and treat the gingivitis. Finally, a cocker spaniel named Charley is brought to the clinic suffering from mobility issues. Dr. James, the clinic's neurologist, will perform a neurological exam on Charley to determine the cause of his disoriented gait. After results prove inconclusive, Dr. James orders an MRI exam to rule out any potential tumors or inflammation in Charley's brain. Following the results of the MRI, Dr. James determines that Charley is suffering from ear canal disease and will be prescribed medication for recovery.

[Educational Message: Veterinarians dedicate their lives to treating our pets. In this episode, we see the compassion of veterinary professionals as they treat their patients. We must not forget that all life is important, no matter how big or small.]

Airdate: 6/6/2020

Time:

Duration: 30:00

ROOTS LESS TRAVELED

CONNECTING TO A PURPLE HEART [RLT102]

Today on Roots Less Traveled, host Faruq Tauheed takes 80-year-old dancing Grandpa Evan and his grandson Scott to Billings, Montana. We'll learn that the state of Montana became a U.S. territory during The Gold Rush of 1864. Here the duo will learn that Evan's great-grandfather was an integral part of the U.S. western states expansion of 1862 and had even cultivated a 160-acre farm. We'll discover that this was made possible by the Homestead Act, which was signed into law by President Abraham Lincoln in 1862. We'll also find out that between 1880 and 1890, the population of Montana grew from 39,000 to 143,000. Montana is nicknamed "The Treasure State" due to its availability of agate, gold, silver, and other precious stones. But closer to Evan's heart, he learns that two of his uncles who he had met when he was a child, were both prisoners of war in WWII. Even more fascinating, Evan and Scott discover that both of their uncles received Purple Hearts. We'll find out that the Purple Heart Medal is a combat decoration awarded to members of the U.S armed forces who are wounded or killed while serving in the military. After this discovery, Evan and Scott deeply connect while visiting the Montana Purple Heart Memorial to honor their veteran relatives.

[Educational Message: When we look deeper into our past, we can gain a better understanding of our roots. In this episode, Evan and Scott learned that their relatives both served in WWII and were even taken as prisoners for several years. Given that he once served in the Air Force himself, Evan gains a new connection to his uncles and their military past. Understanding the incredible sacrifice and courage of their ancestors has brought Evan and Scott closer together.]

Airdate: 6/6/2020

Time:

Duration: 30:00

THE CHAMPION WITHIN

GOING FOR GOLD: DOWN BUT NEVER OUT [HOC412]

First, we meet Paralympic athlete Megan Blunk who uses her platform as a wheelchair basketball player to show others that being in a wheelchair does not prevent you from having a fulfilled life. Wheelchair basketball is a summer Paralympic sport, and women's Paralympic basketball was introduced in 1968. Next, we meet former First Tee student Rayshon Payton and learn how he's applying lessons he learned in golf and putting them into action in the real world as he pursues his ultimate goal of becoming a Supreme Court justice. Then, we hear how Paralympian Tatyana McFadden got started in wheelchair racing, going on to become the first racer ever to win all four major marathons-- London, Boston, New York and Chicago-- in a calendar year. The motto of the Paralympic Games is "Spirit in Motion," and the term "Paralympics" comes from the Greek "para" meaning "besides or alongside," suggesting that the Games run during the Olympics. Lastly, we learn how swimmer Brad Snyder adapted to being blind after suffering life threatening injuries in the Army, and how his acceptance and perseverance helped him to win a gold medal swimming in the Paralympics. Swimming was one of the original sports in the Stoke Mandeville Games, the first modern Paralympic Games started by Sir Ludwig Guttmann in Rome in 1960.

[Educational Message: Don't allow challenging circumstances to control your ability to succeed-- use each challenge as a learning opportunity to become better. Viewers learn about wheelchair basketball, wheelchair racing, Paralympic swimming, how to deal with adversity, and how to apply lessons learned in sports to other aspects in life.]

Airdate: 6/13/2020

Time:

Duration: 30:00

EARTH ODYSSEY WITH DYLAN DREYER

VOYAGE IN VANCOUVER [EDD229]

Today on Earth Odyssey, host Dylan Dreyer takes us to Vancouver, where we will explore the beautiful landscape and diversity of animals that are native to this area. Located off the west coast of Canada, Vancouver Island stretches approximately two-hundred and eighty miles long by about sixty miles wide. Vancouver Island is known as the largest island off the west coast of North America. First up, we'll learn about the humpback whales that call that waters of Vancouver home. Reaching fifty-two feet in length and weighing more than thirty-six tons, the humpback whale is the fifth largest animal on the planet. The humpback's enormous frames are fueled by small schooling fish like herring and swarms of tiny shrimp-like crustaceans known as krill. These toothless whales use a mass of bristles called baleen plates to filter food from the water. We'll discover that there are over ten known whale species with baleen plates, categorized as "baleen whales." Baleen bristles can be anywhere from two inches to twelve feet long and are made of the same material as our fingernails. Next, we'll travel to East Sooke Park on the southern tip of Vancouver Island where thousands of turkey vultures gather creating a unique spectacle. Masters of soaring flight, turkey vultures aren't strong flyers and rely on winds and thermal currents to keep them aloft. This efficient way of traveling uses just a fraction more energy than when they're standing still. We'll discover that turkey vultures can have a wingspan of roughly six feet and can weigh up to four pounds. We'll learn that turkey vultures are also known as buzzards or carrion crows in some parts of North America. Finally, we'll meet with the island's largest predator, the black bear. Vancouver Island is home to seven thousand to twelve thousand black bears, one of the highest concentrations of black bears in the world. Darker than mainland bears and slightly larger, the black bears of Vancouver Island can weigh up to six-hundred pounds. We'll discover that adult black bears can gain roughly thirty pounds of fat per week when preparing for hibernation.

[Educational Message: Vancouver Island is a region with giants both on land and in the ocean. These creatures have learned to master the cold and the elements to ensure survival for themselves and their offspring. With the nutrients that Vancouver Island receives from the life cycle from all living things, animals continue to thrive in this unbelievable habitat.]

Airdate: 6/13/2020

Time:

Duration: 30:00

EARTH ODYSSEY WITH DYLAN DREYER

EXPLORING AROUND THE ANDES [EDD230]

Today on Earth Odyssey, host Dylan Dreyer leads us on an amazing adventure to the Andes Mountains, one of the most biodiverse regions on the Earth. At over forty-five hundred miles long, and one-hundred and twenty miles wide, the Andes are an epic landscape of snow-capped mountains and belching volcanoes. We'll learn that the average peak height in the Andes Mountain Range is roughly thirteen thousand feet. First up, we'll travel to the Altiplano region of the Andes to discover more about the creatures that inhabit the area. Due to volcanic activity, toxic lakes have formed in the high altitudes of the Altiplano region. We'll discover that colorful plankton and algae thrive in these mineral rich waters. In the spring, flamingos are attracted to these lakes to feed. Here we'll discover that three of the world's six species of flamingos gather here. All flamingos are filter feeders, targeting shrimp and algae from the salty waters. We'll discover that each species of flamingo has a different sized filter in its bill, and each gathers its food from different depths to avoid competition. Here we'll learn that this filter feeding adaptation was also found in the Pterosaur, which existed roughly one-hundred and fifty million years ago. Next, we'll meet one of the Andes' most iconic animals, the Andean bear. Andean bears are also called "spectacled bears" due to their facial markings which resemble glasses. We'll discover that Andean bears have markings as complicated and unique as human fingerprints. Here we'll witness a mother Andean bear as she teaches her cubs how to forage for food. Finally, we'll journey to the cloud forest to meet with the fascinating bird species of the Andes. In the cloud forest, the high altitude causes the nights to be extremely cold and the days very damp, meaning not many flying insects can survive here. Therefore, most plants are pollinated by hummingbirds. These birds hover in position by beating their wings up to a hundred times per second, with their heartbeat reaching nearly a thousand beats per minute. To power their incredible metabolism, they must consume more than their own weight in nectar every day. We'll discover that hummingbirds must feed from hundreds of flowers to gain enough energy to survive the cold nights.

[Educational Message: Rainfall in the cloud forest is essential to supporting the amazing biodiversity that you'll find in the Andes Mountains. From flamingos to Andean bears, this mountain range is full of danger, beauty, and intrigue.]

Airdate: 6/13/2020

Time:

Duration: 30:00

CONSUMER 101

CONQUERING THE USED CAR PURCHASE [CNR226]

Host Jack Rico and the experts at the testing labs will show us how to avoid online privacy traps, what to look for when buying a used car, and the future of vacuuming. First up, we'll meet with a privacy expert to learn how we can protect ourselves from hackers and scammers online. We'll discover that some hackers use a tactic called "phishing" in order to lure their victims. These "phishing" emails are designed to mimic

official email accounts and websites, tricking people into giving up their passwords, credit card numbers, and other personal information. We'll learn that you should always confirm the legitimacy of these email accounts and websites before giving away any personal information. Next, Jack joins an auto expert to learn some tips on how to buy the best used car. We'll find out that when speaking to a dealer about buying a car, you should never reveal how much money you want to spend. We also learn that you should never let a car dealer rush you into a sale, always take your time to think it over first. We'll also find out that it's important to inspect the vehicle for any defects or damage before buying. It's also important to have a mechanic that you trust check the vehicle thoroughly for any other hidden issues. Finally, we'll check out the science behind the next generation of smart home helpers, robotic vacuums. We'll meet with expert vacuum testers to learn more about how the robot vacuums are scientifically measured in a controlled environment. In order to ensure consistency and accuracy, testers use a controlled weight of a variety of different sized debris for the vacuums to pick up. Following the test, the debris picked up by the vacuums is weighed in order to determine how effective the vacuums performed. We'll also see how experts use sensor technology to generate a map of the vacuum's path to determine how well it covers the space of a room.

[Educational Message: In this episode, we learned the importance of protecting your online privacy. Hackers and scammers are improving their techniques each day and it's important we stay ahead of them. We must always use online apps and websites responsibly and carefully in order to protect our personal data and privacy.]

Airdate: 6/13/2020

Time:

Duration: 30:00

VETS SAVING PETS

A DIZZYING CASE [VSP217]

Today on Vets Saving Pets, a Bichon comes into the clinic with seizure issues, a cat is in need of rehabilitation, and a cat named Cyril is suffering from high blood pressure. First up, a Bichon named Mazy is brought into the clinic suffering from seizures. Dr. James, the clinic's neurologist, performs several neurological tests but suspects a brain tumor or inflammatory disease could be the cause of Mazy's seizures. In order to more accurately diagnose the issue, Dr. James performs a computerized tomography scan, or CT scan, of Mazy's brain. After results are still inconclusive, Dr. James administers a spinal tap, or lumbar puncture, that can help diagnose infections and nervous system disorders. It is soon determined that Mazy has an inoperable mass in her nasal cavity. Dr. James prescribes medication to stop the seizures and sends Mazy home for further monitoring. Next, a cat named Reine is brought to the clinic for rehabilitation following a recent injury. After falling from a balcony, Reine suffered a scapular fracture that has limited her mobility. Reine will visit with the clinic's rehabilitation therapist for physical therapy and strengthening exercises to improve her range of motion. Finally, a Burmese cat named Cyril is brought into the clinic suffering from complications associated with his high blood pressure. Dr. Williams, the clinic's cardiologist, will be checking up on Cyril to determine if his blood pressure has lowered since his previous veterinary visit. Although his blood pressure has improved, Dr. Williams is concerned with Cyril's inexplicable head tilt that is affecting the cat's balance. Dr. Cochrane, one of the clinic's neurologists, is called in to assist Dr. Williams with diagnosing Cyril's condition, which may be caused by a brain bleed. After performing a variety of neurological tests, Dr. Cochrane confirms that the condition is not serious and sends Cyril home to be monitored by her owner.

[Educational Message: When we work together, we can achieve great things. It's important that we consult with those who have more experience and knowledge to help better solve problems. Veterinarians often rely on each other to successfully diagnose and treat their animal patients.]

Airdate: 6/13/2020

Time:

Duration: 30:00

ROOTS LESS TRAVELED

CONNECTING TO THE BROOKLYN BRIDGE [RLT104]

Today on Roots Less Traveled, host Faruq Tauheed takes aunt and nephew Tammy and Julian on a cosmopolitan adventure in Brooklyn, New York. We'll first learn that the Brooklyn borough of New York City was originally called "Breukelen," which is Dutch for "broken land." Tammy and Julian's journey begins when they learn that they are related to undertaker John Baisley, who helped the city bury its dead during the Yellow Fever epidemic in 1856. Since the city of Brooklyn was so densely populated, hundreds died during this time and others left their homes and abandoned the city. We'll learn that while many were fleeing the city, John Baisley stayed in Brooklyn to help nurse the sick and dying, in most cases rendering his services without expecting or receiving any pay. Tammy and Julian also learn that they have direct ties to James Howell, a former Mayor of Brooklyn who served from 1878-1881. Not only was James Howell the 19th Mayor of Brooklyn, he also owned a large iron works company and became an integral part in building the iconic Brooklyn Bridge. To learn more about their ancestor's iron works company, Tammy and Julian visit a blacksmithing shop to discover what it would've been like to work as a blacksmith during that time. Here we'll discover that the craft of blacksmithing has been traced back to 1350 BCE.

[Educational Message: In this episode, Tammy and Julian discovered their family roots go much deeper than they had previously known. Tammy and her father always shared a strong connection to New York City and specifically the Brooklyn Bridge. After discovering that their relative, James Howell, was elected as the President of the trustees for the Brooklyn Bridge, Tammy's connection to the bridge grows even stronger. Sharing this experience with her nephew Julian only serves to strengthen that connection as well as their bond as a family.]

Airdate: 6/13/2020

Time:

Duration: 30:00

THE CHAMPION WITHIN

GOING FOR GOLD: GYM JAMS [HOC413]

First, we get a closer look at the already impressive career of gymnast Simone Biles and examine how she cemented her place in gymnastics history after her performance at the Rio Games, where she won more gymnastics gold medals than any previous American woman. The term "gymnastics" comes from the Greek word meaning "to exercise." Next, swimmer Katie Ledecky explains how having the right support team and environment is key to being an Olympian, as she prepares for her third Olympic games-- eight years after stunning the world as a 15-year old at the London Olympics, where she won her first gold medal. Then, we learn how basketball legend Sue Bird has made an impact on the sport not only through her talent but also through her selflessness and willingness to teach others. Women's basketball was added to the Olympics in 1976. The U.S. women's team has won six consecutive titles so far-- if they win their seventh straight championship in 2021, they will tie the U.S. men's basketball team for the most consecutive Olympic team victories in all Olympic sports, men or women. Lastly, we learn how golf is making an impact on athletes in the Special Olympics by giving them the opportunity to learn from and teach each other. The Special Olympics was founded in 1968, and the Special Olympics golf program began in 1988.

[Educational Message: It takes more than the work of one person to succeed-- having a good support system is just as important as having the drive to win. Viewers learn about the history of women's

Olympic gymnastics, the importance of supporting others and having support from others, and the history of golf in the Special Olympics.

Airdate: 6/20/2020

Time:

Duration: 30:00

EARTH ODYSSEY WITH DYLAN DREYER

THE AMAZING AMAZON [EDD231]

Today on Earth Odyssey, host Dylan Dreyer takes us to the Amazon to explore the wildlife and the cultures that live there today. Formed over the last fifteen million years, the Amazon covers three million square miles of South America. This vast rainforest straddles the equator making it permanently hot and wet, the ideal conditions for creating and maintaining life. First up, we'll learn about ancient civilizations living within the dense rainforests of the Amazon. We'll discover that it's now thought that five and a half million people inhabited the Amazon in the early sixteenth century. Today, there are thirty million people living in the Amazon. Many are descendants of the first waves of incomers such as rubber farmers and traders, but some are descended from people that have lived in the Amazon for ten thousand years. We'll discover that the population of the Amazon River Basin is less than ten percent indigenous. Here we'll learn about the rituals and hunting practices of the native people. We'll also witness the unique rites of passage for young boys living within the native tribes. Next, we'll discover more about the predators of the Amazon, such as the jaguar. While many cats avoid getting their feet wet, jaguars use the smaller waterways of the Amazon to move around with ease. Their large paws make excellent paddles as they hunt for fish, turtles, and even caiman. Finally, we'll discover more about the pink river dolphin. Pink river dolphins are nearly blind, but they do not require keen eyesight due to the low visibility in the murky waters of the Amazon. These creatures hunt and navigate using echolocation, an adaptation that helps the animals build a sonic picture of their underwater world. We'll discover that pink river dolphins are able to bend up to ninety degrees, allowing them to easily navigate roots and trees in the water.

[Educational Message: The traditions that have been passed down from generation to generation only add to the pure wonder of this biodiverse South American jewel. As the modern world encroaches, it's clear how vulnerable plants and animals can begin to change. The Amazon's future is in our hands and its complexities must be respected.]

Airdate: 6/20/2020

Time:

Duration: 30:00

EARTH ODYSSEY WITH DYLAN DREYER

FINDING THE LOST WORLDS [EDD232]

Today on Earth Odyssey, host Dylan Dreyer leads us on an incredible adventure to the lost worlds of India. Known as the Seven Sisters, the Northern region of India is comprised of seven relatively unexplored and isolated states bordered by the Himalayas to the north and the Indian Ocean to the south. These seven states of India are among the least explored places on Earth. First up, we'll learn about the local inhabitants of

these lost worlds of India. Although the local humans thrive among the rich forested mountains, they aren't immune to attacks from the animals they share their home with. The Indian elephant's migratory routes extend throughout the region, but their ancient paths have been seriously interrupted by the local people. Here we'll discover that elephant herds consist of about fifteen elephants on average and are typically led by the oldest female. Elephants eat an estimated fifty-six tons of food per year, totaling roughly three hundred and thirty pounds per day. As homes and crops are devastated, tensions between humans and elephants escalate. As crops spread and villages grow, further clashes seem inevitable. Here we'll learn how the local people live and work alongside these massive creatures in harmony. Next, we'll embark on a hunting journey with a local tribe and learn more about the cultural rituals of these native people. We'll also find out that traditional folk songs and dances are essential ingredients of the local culture. These celebrations are inspired by a creature that is an icon throughout Northeast India, the great hornbill. Finally, we'll discover more about the legendary great hornbill bird species. Hornbills have a long curved bill which is often brightly colored and quite heavy. Hornbills are the only birds whose first two neck bones are fused together to help support the weight of their beak. Research suggests the hornbill's impressive beak may have formed to amplify their territorial calls. Here we'll discover that hornbills primarily eat fruit but supplement their diet with small mammals, insects, and even snakes. We'll also learn that the hornbill's wings are so loud, they can be heard from long distances, even up to half a mile away.

[Educational Message: Today we witnessed an incredible connection between animals and humans that's rarely seen in the wild. Without many other places on Earth like these lost worlds, it's important to protect some of the last remaining ancient traditions our world has.]

Airdate: 6/20/2020

Time:

Duration: 30:00

CONSUMER 101

UNDER PRESSURE [CNR212]

Host Jack Rico and the experts at the testing labs teach us about smoke detectors, show us how to cook a healthy meal without using your oven, and we get expert tips on how to be a safer driver. First up, we'll meet with an appliance expert to learn how smoke detectors work and how we can keep ourselves prepared in the event of a fire. We'll witness first-hand scientific testing of smoke detectors in a controlled environment. Here we'll discover that there are two types of smoke detectors known as photoelectric and ionization detectors. We'll learn that photoelectric detectors use light to detect smoke and are less prone to false alarms. While ionization detectors are better at detecting flames than smoke, we'll learn that they are more prone to false alarms. We'll discover that dual-sensor detectors that combine both of these technologies are most recommended for your home. Next, we'll meet with an expert to learn how to cook a healthy meal without using your oven. We'll discover that appliances such as a toaster oven, air fryer, and multi-cooker can all be used instead of your oven. We'll learn that toaster ovens are beneficial because they heat up faster than a traditional oven and are ideal for baking smaller items. In order to learn more about the science of how these appliances work, we'll learn about the three ways heat is transferred- convection, conduction, and radiation. Next, we're going to learn some skills on how to become a safer driver on the roads. We first learn that it's important to always have your hands properly placed on the wheel in the nine and three o'clock positions. We next discover that it's best to use "shuffle steer" when performing a U-turn maneuver, which allows your hands to stay on the steering wheel at all times when turning. Jack will also learn about ABS, or anti-lock braking system, which prevents the wheels from locking up during braking.

[Educational Message: In this episode, we learned about the different types of smoke detectors and how they function. We discovered how ionization and photoelectric detectors use different technologies to detect smoke and fires. It's important that you choose the best smoke detector for your home. For your safety, always test your detectors monthly and replace the batteries at least once a year.]

Airdate: 6/20/2020

Time:

Duration: 30:00

VETS SAVING PETS

DANGEROUS ENCOUNTERS [VSP221]

Today on Vets Saving Pets, a cheetah from the local zoo is having dental issues, an injured poodle that was bitten by another dog comes to the clinic, and a Golden Retriever is suffering from heartworms. First up, Dr. French, the clinic's veterinary dentist, is traveling to the local zoo to check up on a cheetah with a broken tooth. After sedating the cheetah, Dr. French closely examines the patient's mouth to determine if the broken tooth will need to be extracted. Dr. French decides that a root canal will be the best course of action to repair the tooth and prevent infection. Next, a poodle named Mocha is rushed into the clinic after being attacked by another dog. Dr. Forbes, the clinic's emergency veterinarian, meets with Mocha to determine the severity of her injuries. After discovering a large lesion on Mocha's back, Dr. Forbes becomes concerned that there may also be internal injuries and potentially head trauma. Dr. Forbes performs X-rays on Mocha that reveal no major internal injuries or bleeding. Mocha will undergo surgery to carefully suture her external lesions. Finally, a rescued Golden Retriever named Shadow arrives at the clinic after testing positive for heartworms. Dr. Williams, the clinic's cardiologist, performs an ultrasound to better gauge the severity of the heartworm infestation.

[Educational Message: It's important that we always treat animals with compassion and empathy. Veterinarians go above and beyond to keep our furry friends happy and healthy. We must not forget that all life is important, no matter how big or small.]

Airdate: 6/20/2020

Time:

Duration: 30:00

ROOTS LESS TRAVELED

CONNECTING TO JOHN F KENNEDY [RLT101]

Today on Roots Less Traveled, host Faruq Tauheed takes half-siblings Michelle and Rob to Mexico City. Here they will discover that they are related to the Uruchurtus, a very famous Mexican political family. Their journey includes a trip to the ornate National Palace where they learn that their second cousin Ernesto gave the keys to Mexico City to President John F. Kennedy. Here we'll find out that the Zocalo, or Plaza de la Constitucion, was previously the principal ceremonial site in the Aztec city of Tenochtitlan. Michelle and Rob happen to be in Mexico City during Dia de los Muertos, or Day of the Dead, a holiday that honors loved ones who have passed. In preparation for this annual cultural event, they soon learn their third cousin Manual Uruchurtu died on the Titanic, after giving up his seat on a lifeboat to a woman in need. We'll find out that in 1912, over 1,500 passengers perished when the Titanic sank during its maiden voyage. We'll discover that the 2,240 people on board the Titanic are believed to have represented as many as 30 different nationalities.

[Educational Message: Connecting with our past helps us connect to parts of ourselves that we didn't know existed. In this episode, we learned that the Uruchurtu family had a cousin that gave up his lifeboat seat when the ill-fated Titanic began to sink. Michelle and Rob were moved by this selfless act of kindness, inspiring them to show more love and compassion in their own daily lives.]

Airdate: 6/20/2020

Time:

Duration: 30:00

THE CHAMPION WITHIN

GOING FOR GOLD: BACK FLIPPING FORWARD [HOC409]

First, we hear inspiring stories about some of the athletes from the U.S. men's and women's swim teams at the Rio Games, which consisted of 30 first time Olympians and 26 first time medalists, including Simone Manuel, who became the first African-American female swimmer to win individual gold. Women's swimming became an Olympic event in 1912 at the Stockholm Games, and the United States holds the record in Olympic swimming with 553 medals. Next, we learn more about the indelible mark swimmer Michael Phelps made on the sport as the most decorated Olympian of all time, achieving feats that will likely never be repeated. Michael Phelps made his Olympic debut at the 2000 Summer Olympics and completed his swimming career at the 2016 Rio Games, finishing with a total of 28 medals. Then, we look back at some of the memorable moments from the U.S. women's gymnastics team's historic performance at the Rio Games. The first time women competed in gymnastics at the Olympics was 1936 in Berlin. Lastly, we learn about sports writer and golf amateur Nick Edmund's mission to make a difference after a cancer diagnosis by walking 1,200 miles along the Wild Atlantic Way in Ireland and playing the fourth hole at 40 different golf clubs along the way to raise awareness for cancer. The Wild Atlantic Way is a tourism trail on the west coast of Ireland that stretches 1,553 miles.

[Educational Message: Greatness can be defined in more ways than winning a gold medal-- it can be achieved by being a leader, supporting others, and not giving up. Viewers learn about the hard work and perseverance it takes to win a medal at the Olympics, the history of Olympic swimming and Olympic gymnastics, and the importance of maintaining a positive attitude during a challenging time.]

Airdate: 6/27/2020

Time:

Duration: 30:00

EARTH ODYSSEY WITH DYLAN DREYER

GOING DOWN THE GANGES [EDD233]

Today on Earth Odyssey, host Dylan Dreyer takes us to the Ganges where we'll discover the fascinating creatures that live on this amazing landscape. On its epic journey from the highest mountains, through cultivated farmland, sprawling wilderness, to the Indian Ocean, the Ganges is the longest river in India. The Ganges provides a home to some of India's rarest creatures and a lifeline to millions of people living in India. First up, we'll learn about some of the native bird species that call the Ganges home. Birds known as brown dippers can be found across the Himalayas, China, Japan, and Korea. Brown dippers have adapted to forage for food in the rocky stream beds that feed the Ganges. Their short wings are strong enough to swim under water and their blood stores more oxygen than terrestrial birds, allowing them to hold their breath for up to thirty seconds. Next, we'll learn about the local agriculture that takes place in the Ganges region. The lower reaches of India's Ganges river basin are so fertile, the locals call the area the rice bowl of India.

Farmers reap four rice harvests a year in this region, which is double that of many parts of India. But these fertile fields bring dangers of their own. Here we'll learn about the monocled cobra and how it poses a threat to local farmers. We'll find out that nearly a million people are bitten by snakes each year, with monocled cobras being one of the most venomous snakes in Asia. We'll also discover that monocled cobras have specially adapted fangs that allow them to shoot venom at threats or prey. Here we'll learn how these creatures are highly revered and protected in the local Indian culture. Finally, we'll join some locals on a fascinating fishing expedition. Using a secret weapon, these fishermen utilize trained otters to help them with their catch. These locals have recruited some of nature's most talented fishermen and trained them to herd fish into their nets. The word "otter" is rooted in the same old English word that yielded the word "water." We'll discover that a group of otters is known as a "raft" when in the water, and a "family" when on land. Here we'll also learn that in China, fishermen have been able to use trained cormorant birds to help catch fish.

[Educational Message: The relationship between animals and humans is a peaceful reminder that respect goes a long way in the community. The river's unique properties nurture and sustain a spectacular array of wildlife. From demise and decay come new beginnings on the Ganges, India's great river of life.]

Airdate: 6/27/2020

Time:

Duration: 30:00

EARTH ODYSSEY WITH DYLAN DREYER

CHARGING THROUGH CHINA [EDD234]

Today on Earth Odyssey, host Dylan Dreyer takes us to China to explore the unbelievable wildlife that roams the land. The snow-capped mountains, temperate valleys, and tropical jungles are home to a spectacular array of wildlife. Approximately half of China's birds and mammals live in this tiny region, many found nowhere else on Earth. First up, we'll learn about one of the world's most elusive animals, the red panda. Just slightly larger than a domestic cat, red pandas live a solitary life in the foothill forests of China. Similar to giant pandas, red pandas have a pseudo thumb that helps them grip bamboo. Red pandas can't digest the cellulose found in most plants, so their diet is made almost entirely of bamboo. Because bamboo nutrition levels are relatively low, they spend around thirteen hours a day feeding. We'll discover that to cope with cooler temperatures, red pandas' bodies are completely covered in fur, including the soles of their feet. Next, we'll learn about the agricultural practices of the local people. We'll learn that the Chinese have been cultivating rice for more than eight thousand years. Rice is considered a staple source of food for more than half the world's population. Here we'll learn about the rice terraces in the Hunan province and how they are some of the oldest human structures in China. Here locals have created a complex system of channels to divert water from the forested mountains to lower altitude fields. We'll discover that these man-made meadows are the perfect habitat for many wetland residents such as paddy frogs and pond herons. Finally, we'll journey to the southwest tropical region of China where we'll meet some fascinating insects. Weaver ants get their name from the unique manner in which they construct their nests. As one group of adults pulls living leaves together, another begins joining the leaf edges using a remarkable process. Using the silk produced by their larva, the ants apply the silk like a glue gun to connect the leaves together. Weaver ants are highly territorial and aggressively defend their territories against intruders. Here we'll learn that silk weaver ants are a "monogynous" species," meaning they only have one queen per colony.

[Educational Message: Southwest China is a secret paradise where life fueling valleys play host to a vast array of creatures, many found nowhere else on Earth. The region's unique geography not only sustains food and water, it provides protection from the extreme neighboring climates. China's secret garden remains a unique and magical land.]

Airdate: 6/27/2020

Time:

Duration: 30:00

CONSUMER 101

TAKE CARE [CNR213]

Host Jack Rico and the experts at the testing labs teach us how to secure our digital privacy, share some tips to keep you safe in the kitchen, and show us how to keep our cool when hydroplaning on the road. First up, we'll meet with a group of experts to find out ways to keep your digital privacy safe. We'll discover that "smart" household items such as door locks, cameras, refrigerators, and even lightbulbs can be accessed by hackers if you're not careful. We'll learn that you should have a strong password and always update the firmware for these devices. We'll discover that firmware is actually a type of software that runs the hardware of whatever device you're using to connect to the internet. It's vital to keep your firmware updated so that you always have the latest security fixes. Next, we'll meet with a nutritionist to learn ways we can stay safe in the kitchen. Here we'll discover that you should never eat raw cookie dough. We'll learn that there are a lot of potential sources of contamination in cookie dough, such as E. coli in the flour. Flour is a raw, agricultural product, which means it isn't treated prior to being packaged. We learn that contamination can occur at any step of the production chain along the way to our kitchen. However, when the dough is baked, the heat kills any bacteria, making it safe to consume. Finally, we'll be learning about hydroplaning and how experts test tires for hydroplaning resistance. We'll first learn how tires are designed to evacuate water when driving on wet surfaces, but we discover that when traveling at higher speeds in heavy rain, the tires can lift off the road and cause your car to lose control. On a controlled test track, Jack will test the hydroplaning effects of tires at various speeds and show us how to best react when in a similar situation.

[Educational Message: In this episode, we learned about the importance of protecting your personal information and digital privacy. We learn that many "smart" household items such as doorbells and refrigerators can be a gateway to our personal information. Changing passwords and updating firmware can help prevent hackers from stealing your information.]

Airdate: 6/27/2020

Time:

Duration: 30:00

VETS SAVING PETS

FAMILY MATTERS [VSP222]

Today on Vets Saving Pets, Dr. Boyd's dog visits the clinic in need of knee surgery, a Pomeranian needs a teeth cleaning, and a bulldog can't stop bobbing her head. First up, Dr. Boyd's own pet dog, Sargent, arrives at the clinic in need of knee surgery to fix a torn ligament. Here we learn more about Dr. Boyd's personal background and how she dreamed of becoming a veterinarian since she was seven years old. Once Sargent is properly sedated, Dr. Boyd performs an X-ray on her dog's knee to ensure she knows exactly where to make the necessary repairs to the damaged ligament. Here we learn that if the surgery is not executed properly, Sargent could suffer from residual lameness or a limp in his leg. Next, an elderly Pomeranian

named Rosie visits the clinic in need of an overdue dental cleaning. Before Dr. French can perform the teeth cleaning, Rosie will need to be assessed in cardiology to ensure she won't negatively react to the anesthesia. Rosie will meet with Dr. Williams for an echocardiogram exam, a test that measures the electrical activity of a heartbeat, to confirm the anesthesia won't be problematic for the aging dog. Finally, a bulldog named Lulu arrives at the clinic with uncontrollable head bobbing. Lulu meets with neurologist Dr. James for a neurological test to determine the cause of the head shaking. After tests reveal normal results, Dr. James recommends an MRI exam to get a clearer picture of what may be causing Lulu's issues. After consulting with the veterinarians, Lulu's owner decides to wait and see if the head bobbing persists before performing the MRI exam.

[Educational Message: Education is a vital component to working in the field of veterinary medicine. Having a diverse background in various species and breeds of pets is important for a successful career. It is critical for veterinarians to seek additional knowledge and new information to better understand and treat all types of pets.]

Airdate: 6/27/2020

Time:

Duration: 30:00

ROOTS LESS TRAVELED

CONNECTING TO THE CIVIL WAR [RLT106]

Today on Roots Less Traveled, host Faruq Tauheed takes father and daughter Paul and Kalina to the Civil War battleground of Port Republic, Virginia. Here they will discover Paul's great grandfather, Austin D. Springer, was a drummer boy for the Union Army. We'll find out that officers directed the musicians to play certain songs that communicated orders to the soldiers. At the battlefield of Port Republic, Paul and Kalina learn that Austin Springer was taken prisoner by the Confederate Army in 1862. Based on historical evidence, it's believed that Austin Springer stayed behind to help the wounded rather than fleeing the invading Confederate Army, leading to his swift capture. However, Paul and Kalina discover that Austin Springer eventually escaped capture and hid in slave huts until he made his way back to the Union Army. In order to better understand the conditions soldiers faced during this time, Paul and Kalina will join a Civil War re-enactment group to learn what it took to live as a soldier in the Union Army at that time. Paul, a Navy veteran who served in the Vietnam war, connects his own experience and believes that being a combat Veteran is in his genes.

[Educational Message: In this episode, Paul and Kalina connect to a side of their family history that was previously unknown to them. They discovered that their relative Austin Springer served in the Union Army and was taken prisoner by the Confederate Army after he decided to stay behind and take care of the wounded. Paul draws from his own experiences serving in the Navy and feels a deep connection to Austin Springer's courage and resilience. This experience brings Paul and Kalina closer together and gives them a new understanding of where they come from.]

Airdate: 6/27/2020

Time:

Duration: 30:00

THE CHAMPION WITHIN

GOING FOR GOLD: MORE THAN AN ATHLETE [HOC410]

First, we meet fencer Kamali Thompson and learn how she balances her life as a medical student while training to achieve her goal of winning a gold medal at the Olympics. Fencing made its Olympic debut in

1898; and there are three types of fencing swords: foil, epee, and sabre. Next, we learn how injured military veteran Mike Morales finds solace in playing golf and how it helps him recover physically and mentally. Posttraumatic stress disorder is a psychiatric disorder that can occur in people who have experienced or witnessed a traumatic event. Then, we learn how Olympic sprinter Noah Lyles balances his two passions, running and art. Sprinters use spikes with no cushioning because all of their running is done on the ball of their foot. Lastly, we meet cyclist Annemiek van Vleuten, learning about her comeback after a terrible crash during the 2016 Rio Olympics cost her the gold medal. After her recovery, Annemiek returned to cycling to ultimately win a world title, inspiring viewers to keep pushing for their dreams when it may seem the race has been lost.

[Educational Message: Finding the courage to try again after failing or to try something new can lead to different opportunities, newfound interests, and success. Viewers learn about the sport of fencing, ways to balance two passions, how sports can be therapeutic, and the importance of having versatility and outlets to express yourself.]

For 2nd Quarter 2020
April 1, 2020 – June 30, 2020

THERE WAS NO OTHER PROGRAMMING FOR THE 2nd QUARTER OF 2020, THAT CONTRIBUTED, AS PART OF NBC'S OVERALL PROGRAMMING, TO SERVE THE EDUCATION AND INFORMATIONAL NEEDS OF CHILDREN 16 AND UNDER.

2nd Quarter 2020 PSAs

NETWORK PUBLIC SERVICE
SCHEDULE APRIL 2020

AIR DATE	SHOW TITLE	HIT TIME	DURATION	MATERIAL ID	PRODUCT TITLE
04/04/2020	TMYK EARTH ODYSSEY WITH DYLAN DREYER #1 30 MIN (4 SEG)	10:25:00 a	:15	VYRC8001209H	GC FILLER PSA RED CROSS COV19
04/04/2020	TMYK EARTH ODYSSEY WITH DYLAN DREYER #2 30 MIN (4 SEG)	10:55:00 a	:15	VYRC8001209H	GC FILLER PSA RED CROSS COV19
04/04/2020	TMYK CONSUMER 101 30 MIN (5 SEG)	11:25:00 AM	:15	VYRC8001209H	GC FILLER PSA RED CROSS COV19
04/04/2020	TMYK VETS SAVING PETS 30 MIN (5 SEG)	11:55:00 a	:15	VYRC8001209H	GC FILLER PSA RED CROSS COV19

04/04/2020	TMYK ROOTS LESS TRAVELED 30 MIN (5 SEG)	12:25:00 p	:15	VYRC8001209H	GC FILLER PSA RED CROSS COV19
04/04/2020	TMYK CHAMPION WITHIN 30 MIN (5 SEG) (269533)	12:55:00 p	:15	VYRC8001209H	GC FILLER PSA RED CROSS COV19
04/11/2020	TMYK EARTH ODYSSEY WITH DYLAN DREYER #1 30 MIN (4 SEG)	10:25:00 a	:15	BP015DBTCO2930H	BRAVO BTC S17 RESTAURANT RELIEF PSA
04/11/2020	TMYK EARTH ODYSSEY WITH DYLAN DREYER #2 30 MIN (4 SEG)	10:55:00 a	:15	BP015DBTCO2930H	BRAVO BTC S17 RESTAURANT RELIEF PSA
04/11/2020	TMYK CONSUMER 101 30 MIN (5 SEG)	11:25:00 AM	:15	BP015DBTCO2930H	BRAVO BTC S17 RESTAURANT RELIEF PSA
04/11/2020	TMYK VETS SAVING PETS 30 MIN (5 SEG)	11:55:00 AM	:15	BP015DBTCO2930H	BRAVO BTC S17 RESTAURANT RELIEF PSA
04/11/2020	TMYK ROOTS LESS TRAVELED 30 MIN (5 SEG)	12:25:00 p	:15	BP015DBTCO2930H	BRAVO BTC S17 RESTAURANT RELIEF PSA
04/11/2020	TMYK CHAMPION WITHIN 30 MIN (5 SEG) (269533)	12:55:00 p	:15	BP015DBTCO2930H	BRAVO BTC S17 RESTAURANT RELIEF PSA
04/11/2020	TMYK EARTH ODYSSEY WITH DYLAN DREYER #1 30 MIN (4 SEG)	10:25:00 a	:15	CIAN0040000H	PSA 2020, :15 THE MORE YOU KNOW COVID-19 HIGH RISK
04/18/2020	TMYK EARTH ODYSSEY WITH DYLAN DREYER #2 30 MIN (4 SEG)	10:55:00 a	:15	CIAN0065000H	PSA 2020, :15 THE MORE YOU KNOW COVID-19 HIGH RISK 2
04/18/2020	TMYK CONSUMER 101 30 MIN (5 SEG)	11:25:00 AM	:15	CIAN0066000H	PSA 2020, :15 THE MORE YOU KNOW COVID-19 MENTAL HEALTH 2
04/18/2020	TMYK VETS SAVING PETS 30 MIN (5 SEG)	11:55:00 a	:15	CIAN0038000H	PSA 2020, :15 THE MORE YOU KNOW COVID-19 PARENTING
04/18/2020	TMYK ROOTS LESS TRAVELED 30 MIN (5 SEG)	12:25:00 p	:15	CIAN0063000H	PSA 2020, :15 THE MORE YOU KNOW COVID-19 PARENTING 2
04/18/2020	TMYK CHAMPION WITHIN 30 MIN (5 SEG) (269533)	12:55:00 p	:15	CIAN0040000H	PSA 2020, :15 THE MORE YOU KNOW COVID-19 HIGH RISK
04/25/2020	TMYK EARTH ODYSSEY WITH DYLAN DREYER #1 30 MIN (4 SEG)	10:25:00 a	:15	CIAN0040000H	PSA 2020, :15 THE MORE YOU KNOW COVID-19 HIGH RISK
04/25/2020	TMYK EARTH ODYSSEY WITH DYLAN DREYER #2 30 MIN (4 SEG)	10:55:00 a	:15	CIAN0065000H	PSA 2020, :15 THE MORE YOU KNOW COVID-19 HIGH RISK 2

04/25/2020	TMYK CONSUMER 101 30 MIN (5 SEG)	11:25:00 AM	:15	CIAN0066000H	PSA 2020, :15 THE MORE YOU KNOW COVID-19 MENTAL HEALTH 2
04/25/2020	TMYK VETS SAVING PETS 30 MIN (5 SEG)	11:55:00 a	:15	CIAN0038000H	PSA 2020, :15 THE MORE YOU KNOW COVID-19 PARENTING
04/25/2020	TMYK ROOTS LESS TRAVELED 30 MIN (5 SEG)	12:25:00 p	:15	CIAN0063000H	PSA 2020, :15 THE MORE YOU KNOW COVID-19 PARENTING 2
04/25/2020	TMYK CHAMPION WITHIN 30 MIN (5 SEG) (269533)	12:55:00 p	:15	CIAN0040000H	PSA 2020, :15 THE MORE YOU KNOW COVID-19 HIGH RISK

**NETWORK PUBLIC SERVICE
SCHEDULE MAY 2020**

AIR DATE	SHOW TITLE	HIT TIME	DURATION	MATERIAL ID	PRODUCT TITLE
05/02/2020	TMYK EARTH ODYSSEY WITH DYLAN DREYER #1 30 MIN (4 SEG)	10:25:00 a	:15	CIAN0040000H	PSA 2020, :15 THE MORE YOU KNOW COVID-19 HIGH RISK
05/02/2020	TMYK EARTH ODYSSEY WITH DYLAN DREYER #2 30 MIN (4 SEG)	10:55:00 a	:15	CIAN0065000H	PSA 2020, :15 THE MORE YOU KNOW COVID-19 HIGH RISK 2
05/02/2020	TMYK CONSUMER 101 30 MIN (5 SEG)	11:25:00 AM	:15	CIAN0066000H	PSA 2020, :15 THE MORE YOU KNOW COVID-19 MENTAL HEALTH 2
05/02/2020	TMYK VETS SAVING PETS 30 MIN (5 SEG)	11:55:00 a	:15	CIAN0038000H	PSA 2020, :15 THE MORE YOU KNOW COVID-19 PARENTING
05/02/2020	TMYK ROOTS LESS TRAVELED 30 MIN (5 SEG)	12:25:00 p	:15	CIAN0063000H	PSA 2020, :15 THE MORE YOU KNOW COVID-19 PARENTING 2
05/02/2020	TMYK CHAMPION WITHIN 30 MIN (5 SEG) (269533)	12:55:00 p	:15	CIAN0040000H	PSA 2020, :15 THE MORE YOU KNOW COVID-19 HIGH RISK
05/09/2020	TMYK EARTH ODYSSEY WITH DYLAN DREYER #1 30 MIN (4 SEG)	10:25:00 a	:15	CIAN0040000H	PSA 2020, :15 THE MORE YOU KNOW COVID-19 HIGH RISK
05/09/2020	TMYK EARTH ODYSSEY WITH DYLAN DREYER #2 30 MIN (4 SEG)	10:55:00 a	:15	CIAN0065000H	PSA 2020, :15 THE MORE YOU KNOW COVID-19 HIGH RISK 2

05/09/2020	TMYK CONSUMER 101 30 MIN (5 SEG)	11:25:00 AM	:15	CIAN0066000H	PSA 2020, :15 THE MORE YOU KNOW COVID-19 MENTAL HEALTH 2
05/09/2020	TMYK VETS SAVING PETS 30 MIN (5 SEG)	11:55:00 a	:15	CIAN0038000H	PSA 2020, :15 THE MORE YOU KNOW COVID-19 PARENTING
05/09/2020	TMYK ROOTS LESS TRAVELED 30 MIN (5 SEG)	12:25:00 p	:15	CIAN0063000H	PSA 2020, :15 THE MORE YOU KNOW COVID-19 PARENTING 2
05/09/2020	TMYK CHAMPION WITHIN 30 MIN (5 SEG) (269533)	12:55:00 p	:15	CIAN0040000H	PSA 2020, :15 THE MORE YOU KNOW COVID-19 HIGH RISK
05/16/2020	TMYK EARTH ODYSSEY WITH DYLAN DREYER #1 30 MIN (4 SEG)	10:25:00 a	:15	CIAN0040000H	PSA 2020, :15 THE MORE YOU KNOW COVID-19 HIGH RISK
05/16/2020	TMYK EARTH ODYSSEY WITH DYLAN DREYER #2 30 MIN (4 SEG)	10:55:00 a	:15	CIAN0065000H	PSA 2020, :15 THE MORE YOU KNOW COVID-19 HIGH RISK 2
05/16/2020	TMYK CONSUMER 101 30 MIN (5 SEG)	11:25:00 AM	:15	CIAN0066000H	PSA 2020, :15 THE MORE YOU KNOW COVID-19 MENTAL HEALTH 2
05/16/2020	TMYK VETS SAVING PETS 30 MIN (5 SEG)	11:55:00 a	:15	CIAN0038000H	PSA 2020, :15 THE MORE YOU KNOW COVID-19 PARENTING
05/16/2020	TMYK ROOTS LESS TRAVELED 30 MIN (5 SEG)	12:25:00 p	:15	CIAN0063000H	PSA 2020, :15 THE MORE YOU KNOW COVID-19 PARENTING 2
05/16/2020	TMYK CHAMPION WITHIN 30 MIN (5 SEG) (269533)	12:55:00 p	:15	CIAN0040000H	PSA 2020, :15 THE MORE YOU KNOW COVID-19 HIGH RISK
05/23/2020	TMYK EARTH ODYSSEY WITH DYLAN DREYER #1 30 MIN (4 SEG)	10:25:00 a	:15	ZNBC20180H	PSA 2020, THE MORE YOU KNOW, COVID-19 AAPI "NO ROOM" :15
05/23/2020	TMYK EARTH ODYSSEY WITH DYLAN DREYER #2 30 MIN (4 SEG)	10:55:00 a	:15	ZNBC20179H	PSA 2020, THE MORE YOU KNOW, COVID-19 AAPI "TIME OF CRISIS" :15
05/23/2020	TMYK CONSUMER 101 30 MIN (5 SEG)	11:25:00 AM	:15	ZNBC20180H	PSA 2020, THE MORE YOU KNOW, COVID-19 AAPI "NO ROOM" :15
05/23/2020	TMYK VETS SAVING PETS 30 MIN (5 SEG)	11:55:00 a	:15	ZNBC20179H	PSA 2020, THE MORE YOU KNOW, COVID-19 AAPI "TIME OF CRISIS" :15
05/23/2020	TMYK ROOTS LESS TRAVELED 30 MIN (5 SEG)	12:25:00 p	:15	ZNBC20180H	PSA 2020, THE MORE YOU KNOW, COVID-19 AAPI "NO ROOM" :15
05/23/2020	TMYK CHAMPION WITHIN 30 MIN (5 SEG) (269533)	12:55:00 p	:15	ZNBC20179H	PSA 2020, THE MORE YOU KNOW, COVID-19 AAPI "TIME OF CRISIS" :15

5/30/2020	TMYK EARTH ODYSSEY WITH DYLAN DREYER #1 30 MIN (4 SEG)	10:25:00 a	:15	ZNBC20180H	PSA 2020, THE MORE YOU KNOW, COVID-19 AAPI "NO ROOM" :15
5/30/2020	TMYK EARTH ODYSSEY WITH DYLAN DREYER #2 30 MIN (4 SEG)	10:55:00 a	:15	ZNBC20179H	PSA 2020, THE MORE YOU KNOW, COVID-19 AAPI "TIME OF CRISIS" :15
5/30/2020	TMYK CONSUMER 101 30 MIN (5 SEG)	11:25:00 AM	:15	ZNBC20180H	PSA 2020, THE MORE YOU KNOW, COVID-19 AAPI "NO ROOM" :15
5/30/2020	TMYK VETS SAVING PETS 30 MIN (5 SEG)	11:55:00 a	:15	ZNBC20179H	PSA 2020, THE MORE YOU KNOW, COVID-19 AAPI "TIME OF CRISIS" :15
5/30/2020	TMYK ROOTS LESS TRAVELED 30 MIN (5 SEG)	12:25:00 p	:15	ZNBC20180H	PSA 2020, THE MORE YOU KNOW, COVID-19 AAPI "NO ROOM" :15
5/30/2020	TMYK CHAMPION WITHIN 30 MIN (5 SEG) (269533)	12:55:00 p	:15	ZNBC20179H	PSA 2020, THE MORE YOU KNOW, COVID-19 AAPI "TIME OF CRISIS" :15

**NETWORK PUBLIC SERVICE
SCHEDULE JUNE 2020**

AIR DATE	SHOW TITLE	HIT TIME	DURATION	MATERIAL ID	PRODUCT TITLE
06/06/2020	TMYK EARTH ODYSSEY WITH DYLAN DREYER #1 30 MIN (4 SEG)	10:25:00 a	:15	ZNBC20180H	PSA 2020, THE MORE YOU KNOW, COVID-19 AAPI "NO ROOM" :15
06/06/2020	TMYK EARTH ODYSSEY WITH DYLAN DREYER #2 30 MIN (4 SEG)	10:55:00 a	:15	ZNBC20179H	PSA 2020, THE MORE YOU KNOW, COVID-19 AAPI "TIME OF CRISIS" :15
06/06/2020	TMYK CONSUMER 101 30 MIN (5 SEG)	11:25:00 AM	:15	ZNBC20180H	PSA 2020, THE MORE YOU KNOW, COVID-19 AAPI "NO ROOM" :15
06/06/2020	TMYK VETS SAVING PETS 30 MIN (5 SEG)	11:55:00 a	:15	ZNBC20179H	PSA 2020, THE MORE YOU KNOW, COVID-19 AAPI "TIME OF CRISIS" :15
06/06/2020	TMYK ROOTS LESS TRAVELED 30 MIN (5 SEG)	12:25:00 p	:15	ZNBC20180H	PSA 2020, THE MORE YOU KNOW, COVID-19 AAPI "NO ROOM" :15
06/06/2020	TMYK CHAMPION WITHIN 30 MIN (5 SEG) (269533)	12:55:00 p	:15	ZNBC20179H	PSA 2020, THE MORE YOU KNOW, COVID-19 AAPI "TIME OF CRISIS" :15

06/13/2020	TMYK EARTH ODYSSEY WITH DYLAN DREYER #1 30 MIN (4 SEG)	10:25:00 a	:15	ZNBC20180H	PSA 2020, THE MORE YOU KNOW, COVID-19 AAPI "NO ROOM" :15
06/13/2020	TMYK EARTH ODYSSEY WITH DYLAN DREYER #2 30 MIN (4 SEG)	10:55:00 a	:15	ZNBC20179H	PSA 2020, THE MORE YOU KNOW, COVID-19 AAPI "TIME OF CRISIS" :15
06/13/2020	TMYK CONSUMER 101 30 MIN (5 SEG)	11:25:00 AM	:15	ZNBC20180H	PSA 2020, THE MORE YOU KNOW, COVID-19 AAPI "NO ROOM" :15
06/13/2020	TMYK VETS SAVING PETS 30 MIN (5 SEG)	11:55:00 a	:15	ZNBC20179H	PSA 2020, THE MORE YOU KNOW, COVID-19 AAPI "TIME OF CRISIS" :15
06/13/2020	TMYK ROOTS LESS TRAVELED 30 MIN (5 SEG)	12:25:00 p	:15	ZNBC20180H	PSA 2020, THE MORE YOU KNOW, COVID-19 AAPI "NO ROOM" :15
06/13/2020	TMYK CHAMPION WITHIN 30 MIN (5 SEG) (269533)	12:55:00 p	:15	ZNBC20179H	PSA 2020, THE MORE YOU KNOW, COVID-19 AAPI "TIME OF CRISIS" :15
06/20/2020	TMYK EARTH ODYSSEY WITH DYLAN DREYER #1 30 MIN (4 SEG)	10:25:00 a	:15	ZNBC20180H	PSA 2020, THE MORE YOU KNOW, COVID-19 AAPI "NO ROOM" :15
06/20/2020	TMYK EARTH ODYSSEY WITH DYLAN DREYER #2 30 MIN (4 SEG)	10:55:00 a	:15	ZNBC20179H	PSA 2020, THE MORE YOU KNOW, COVID-19 AAPI "TIME OF CRISIS" :15
06/20/2020	TMYK CONSUMER 101 30 MIN (5 SEG)	11:25:00 AM	:15	ZNBC20180H	PSA 2020, THE MORE YOU KNOW, COVID-19 AAPI "NO ROOM" :15
06/20/2020	TMYK VETS SAVING PETS 30 MIN (5 SEG)	11:55:00 a	:15	ZNBC20179H	PSA 2020, THE MORE YOU KNOW, COVID-19 AAPI "TIME OF CRISIS" :15
06/20/2020	TMYK ROOTS LESS TRAVELED 30 MIN (5 SEG)	12:25:00 p	:15	ZNBC20180H	PSA 2020, THE MORE YOU KNOW, COVID-19 AAPI "NO ROOM" :15
06/20/2020	TMYK CHAMPION WITHIN 30 MIN (5 SEG) (269533)	12:55:00 p	:15	ZNBC20179H	PSA 2020, THE MORE YOU KNOW, COVID-19 AAPI "TIME OF CRISIS" :15
06/27/2020	TMYK EARTH ODYSSEY WITH DYLAN DREYER #1 30 MIN (4 SEG)	10:25:00 a	:15	ZNBC20186H	PSA 2020, THE MORE YOU KNOW, BLM AKBAR GBAJABIAMLIA "DIVERSITY-FREE TO PLAY" :15
06/27/2020	TMYK EARTH ODYSSEY WITH DYLAN DREYER #2 30 MIN (4 SEG)	10:55:00 a	:15	ZNBC20184H	PSA 2020, THE MORE YOU KNOW, BLM CARL QUINTANILLA "DIVERSITY-KINDNESS/KINDERGARTEN" :15
06/27/2020	TMYK CONSUMER 101 30 MIN (5 SEG)	11:25:00 AM	:15	ZNBC20182H	PSA 2020, THE MORE YOU KNOW, BLM NICOLE BLOOM "DIVERSITY-CHECK YOURSELF" :15
06/27/2020	TMYK ROOTS LESS TRAVELED 30 MIN (5 SEG)	11:55:00 a	:15	ZNBC20186H	PSA 2020, THE MORE YOU KNOW, BLM AKBAR GBAJABIAMLIA "DIVERSITY-FREE TO PLAY" :15

06/27/2020	TMYK VETS SAVING PETS 30 MIN (5 SEG)	11:55:00 a	:15	ZNBC20185H	PSA 2020, THE MORE YOU KNOW, BLM TONY DUNGY "DIVERSITY-TAKING ACTION" :15
06/27/2020	TMYK CHAMPION WITHIN 30 MIN (5 SEG) (269533)	12:55:00 p	:15	ZNBC20184H	PSA 2020, THE MORE YOU KNOW, BLM CARL QUINTANILLA "DIVERSITY- KINDNESS/KINDERGARTEN" :15

NBC NETWORK NON-BROADCAST EFFORTS

April - June, 2020

NBCUniversal's *The More You Know* website:

Since 1989, *The More You Know* has brought the nation's most important social issues to the forefront, and remains a trusted voice for sharing knowledge to improve lives and inspire action. *The More You Know's* comprehensive website (themoreyouknow.com) includes in-depth resource and referral information on the campaign's important focus issues including:

- HEALTH – fighting childhood obesity, encouraging nutrition and physical fitness
- ENVIRONMENT – encouraging everyday actions that reduce environmental impact
- EDUCATION – recruiting new teachers and promoting their long-lasting impact
- DIGITAL LITERACY & INTERNET SAFETY - sharing online safety tips and information
- DIVERSITY – embracing differences and promoting inclusion, tolerance and respect

Also featured on site is The More You Know Learning series' *Growing Up Online*, a free eBook on digital literacy and Internet Safety. *Growing Up Online* is an important tool to initiate conversation with children about online safety. The eBook is a media-rich, two-part learning resource that provides easy-to-use information about navigating the digital world in a unique and engaging way. Part one includes safety tips, discussion questions and key takeaways for parents and teachers. Part two features four entertaining video comic books for children, focused on real situations that come up when kids go online.

Additional content on the site includes public service announcements, behind-the-scenes videos, a general overview, a talent directory, and a list of the campaign's accolades such as the prestigious Emmy and Peabody awards.