



“XPLORATION NATURE KNOWS BEST”

SEASON III - 2018/2019

FCC FRIENDLY EPISODE WRITE-UPS

FIRST QUARTER

Week of December 31, 2018 through week of March 25, 2019

Week of December 31, 2018 (Episode #118)

Whether you’re on a team, or just having a little fun, sports play a part in most of our lives. In this episode, host Danni Washington discovers how Mother Nature is revamping some of our favorite activities. She straps on roller skates with reinvented wheels that are inspired by how snakes and fish move. She crushes a 20-minute workout that mimics the physiology of little kids. And she sees how a basic component in plants is helping divers see more clearly underwater.

Week of January 7, 2019 (Episode #119)

Host Danni Washington goes whale watching and discovers the ways whales have inspired new inventions that help us ride bicycles and surfboards better and faster.

Week of January 14, 2019 (Episode #120)

With a little inspiration from Mother Nature, scientists are finding exciting new ways to grow and store food. Just host Danni Washington as she discovers how microscopic bacteria can create organic fertilizer. She heads out to sea to explore “3-D” ocean farming. And a “cool” solution to refrigeration is inspired by ants, elephants and kangaroos.

Week of January 21, 2019 (Episode #121)

Host Danni Washington presents the amazing world of Bio-Hybrid science, where sea slugs become robots, spinach plants prevent explosions and jellyfish could help prevent heart failure



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Week of January 28, 2019 (Episode #122)

Our oceans are almost as vast and unexplored as the far reaches of our solar system. Join host Danni Washington as she meets an inventor using squids to create a new kind of camera. She gets up close to a tiny shrimp that’s helping scientists develop bullet-proof armor. And she sees a suction cup—inspired by an octopus---that’s taking to the skies, on drones.

Week of February 4, 2019 (Episode #123)

Whether it’s under the ocean, in the jungle, or up in the air, our animal friends can have a remarkable way of presenting themselves to the world. Host Danni Washington straps on bionic boots inspired by the ostrich. She sees clothing of the future that could last nearly forever, all thanks to the humble squid. And coral is providing a unique way for us to keep plastic waste from entering our oceans.

Week of February 11, 2019 (Episode #124)

Host Danni Washington presents the latest robots, inspired by nature. In this new age of robotics, machines slither like snakes, robots with wings fly like birds and squishy mechanical creatures inch along like worms.

Week of February 18, 2019 (Episode #125)

When it comes to biomimicry, the Animal Kingdom isn’t the only place to look for inspiration! In this episode, host Danni Washington uncovers some of the different ways plants and fungi are inspiring new inventions and technologies – like a pair of baby shoes made from mushrooms... solar panels inspired by the sunflower... and a “splash pad” that’s modeled after moss.

Week of February 25, 2019 (Episode #126)

The millions of species on Earth have spent billions of years learning to survive vast changes in climate. Host Danni Washington follows scientists and inventors as they turn to Nature to help us cope with a warming world. Did you know robotic mussels are on the front lines of monitoring our oceans? Or that palms trees are models for future wind turbines?



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Week of March 4, 2019 (Episode #127)

Host Danni Washington explores the latest advances in medicine, all inspired by nature. She discovers a glue made from synthesized mussel adhesive, a prototype for an artificial heart that is part spinach leaf and a new form of cardiogram based on an ivy plant.

Week of March 11, 2019 (Episode #128)

Host Danni Washington visits NASA to learn how biomimicry is being used for space exploration. Through virtual reality she visits the International Space Station, learns how a Mars Rover has been inspired by the inchworm, and discovers that NASA is reducing sound in aircrafts by producing materials that copy sea sponges.

Week of March 18, 2019 (Episode #129)

Host Danni Washington experiences amazing new modes of transportation, all inspired by nature. There's a robot on wheels, patterned after sea urchins, that may someday roll on Mars. And a motorcycle inspired by shark skin that could break the land speed record.

Week of March 25, 2019 (Episode #130)

Host Danni Washington explores advances in science - inspired by nature - that will change our everyday life. She tests a new type of glass, inspired by spiders, that deters birds from crashing into it. And she visits a new type of farm that delivers better-tasting produce at a cheaper cost than traditional farms.