

**“XPLORATION NATURE KNOWS BEST”**

SEASON III - 2018/2019

FCC FRIENDLY EPISODE WRITE-UPS

**THIRD QUARTER**

Week of June 24, 2019 through week of August 26, 2019

**Week of June 24, 2019 (Episode #143)**

Robots are built for all kinds of things and, these days, their inventors are looking toward nature to see how animals can help them to do the things that humans can't! Join Danni Washington as she checks out tiny robots based on manta rays that are helping to fight heart problems, robots that are learning to run as fast as our speediest animals, and giant snake-like robots that are drawing attention to climate change!

**Week of July 1, 2019 (Episode #144)**

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 July 8, 2019 (Episode #145)**

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 July 15, 2019 (Episode #146)**

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 July 22, 2019 (Episode #147)**

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.

**Week of July 29, 2019 (Episode #148)**

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.

**“XPLORATION NATURE KNOWS BEST”**

SEASON III - 2018/2019

FCC FRIENDLY EPISODE WRITE-UPS

**THIRD QUARTER**

Week of June 24, 2019 through week of August 26, 2019

**Week of August 5, 2019 (Episode #149)**

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 August 12, 2019 (Episode #150)**

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 August 19, 2019 (Episode #151)**

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 August 26, 2019 (Episode #152)**

Billions 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 palm trees are models for future wind turbines?