

“XPLORATION NATURE KNOWS BEST”

SEASON V - 2020/2021

FCC FRIENDLY EPISODE WRITE-UPS

THIRD QUARTER

Week of August 31, 2020 through week of September 21, 2020

Week of August 31, 2020 (Episode #101)

It's no secret that birds were the inspiration for the first airplanes but, in this episode, host Danni Washington takes a look at how exactly that connection succeeded. She'll fly planes in tight formation to try to mimic the energy-efficient flight patterns of migrating birds, look at how engineers are inventing wings that change their shape while in flight... and even jump out of a perfectly good plane to test out an innovation based on the flying squirrel!

Week of September 7, 2020 (Episode #102)

Lately, we've been turning toward nature more and more while creating our buildings, not just for the materials, but in the way they're constructed! In this episode, join host, Danni Washington, as she tours the "living building" known as the Bullitt Center. This six-story structure mimics a tree; creating its own energy, collecting its own water, and even recycling its own waste. And come along for the ride as we check out other nature-based innovations that are changing our buildings, like a paint that protects them by mimicking the water-resistant properties of the lotus leaf and a waste-movement system based on the intestines of amazing creatures such as the giant blue whale!

Week of September 14, 2020 (Episode #103)

Every species found in nature is a survivor, there's a reason they've been on the planet for as long as they have. So host Danni Washington is trying to figure out what humankind can learn from them that we can use to protect ourselves. She'll explore how fish are helping us to build better armor, how woodpeckers are assisting us to address a top safety concern in the form of concussions, and how one of the deadliest creatures found in nature is now saving lives by keeping planes in the sky during icy conditions!

Week of September 21, 2020 (Episode #104)

The ocean covers more than 70 percent of our planet's surface and humankind has only explored about 5% of it. But the diverse wildlife from the areas we have investigated serves as a major source of inspiration for modern technology! Host Danni Washington uses this episode as an opportunity to continue the investigation, heading under the sea to explore a reef that's full of life, checking out an invention based on lobster eyes, and becoming one with the fish by turning



her feet into fins before riding inside a vehicle based on sharks, whales, and dolphins that will launch her in to, out of, and under the water!