**4th Grade** 2024-2025 Year

Project-Based Learning

Utilized Minecraft, Canva, and Teamwork

**Bundle:** Organism Structures and Behavior

**Anchoring Phenomena:** How can we group organisms by their best sense receptors and describe how those sense receptors help the animals survive?

**Unit Mission Goal:** The students’ mission is to design a zoo that is organized by animals with the best sense receptors and to describe how having those sense receptors helps animals survive. In addition, students will design a scavenger hunt for students who go on field trips to the zoo.

**Suggested Pacing:** 4 weeks **Aug- Sep**

**Scopes:** Plant and Animal Parts, Sense Receptors

**Notes:** Minecraft Zoo Guide and Map,build-in flat world, conservation biology worlds

**Bundle:** Changes over Time to Earth’s Surface and Resources

**Anchoring Phenomena:** What types of changes to Earth’s surface have occurred over time, and why?

**Unit Mission Goal:** The students’ mission is to create an ad to attract new workers to a coal-mining project.

**Suggested Pacing:** 12 weeks **Oct - Dec**

**Scope:** Rock Patterns, Changing Land, Plate Tectonics, Renewable and Nonrenewable, Resources, Natural Processes

**Notes:** Minecraft Themed Ad/Billboard, 64-bit art

**Bundle:** Using Energy Transformations

**Anchoring Phenomena:** Why is a collision dangerous to our ship, and how can we warn the crew?

**Unit Mission Goal:** The students’ mission is to develop an electrical warning system to alert astronauts on a spaceship of potential asteroid collisions.

**Suggested Pacing**: 9 weeks **Jan - March**

**Scopes:** Energy Transfer and Electric Currents, Transfer of Energy in Collision, Energy and Speed, Using Stored Energy

**Notes:** Using Vex Go - Village Engineering Construction, STEM Night March 20th?

**Bundle:** Communicating Using Wave Energy

**Anchoring Phenomena:** What system using light or sound to communicate could

reach people over a distance?

**Unit Mission Goal:** The students’ mission is to create an emergency signaling system and show how it interacts with the eye or ear.

**Suggested Pacing:** 9 weeks **April - May**

**Scopes:** Motion of Waves, Wavelength and Amplitude, Light Reflection, Information Technologies **Notes:** Makerspace, 3D printed product and poster