**Catch a Wave**

**Benchmarks:**

SC.7.P.10.3: Recognize that light waves, sound waves, and other waves move at different speeds in different materials.

SC.7.P.10.2: Observe and explain that light can be reflected, refracted, and/or absorbed.

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| **4** | I can **apply** my understanding of light and sound waves to plan and carry out an investigation involving how light and sound waves interact. | |
| **3** | I can **compare and contrast** how light waves and sound waves move. | |
| **2** | I can **define:**  \_\_\_\_Reflection  \_\_\_\_Refraction  \_\_\_\_Absorption  \_\_\_\_Color  \_\_\_\_Transparent  \_\_\_\_Translucent  \_\_\_\_Opaque | \_\_\_\_I can **explain** reflection, refractions, and absorption of light waves. |
| I can **define:**  \_\_\_\_Electromagnetic waves (light)  \_\_\_\_Transverse wave  \_\_\_\_Mechanical waves (sound)  \_\_\_\_Longitudinal wave  \_\_\_\_Medium  \_\_\_\_Density  \_\_\_\_Frequency  \_\_\_\_Amplitude | \_\_\_\_I can **recognize** electromagnetic waves (light) and mechanical waves (sound) move at different speeds through different mediums.  \_\_\_\_ I can **compare** types of waves  \_\_\_\_ I can **explain** how pitch and frequency relate to each other within sound waves |
| **1** | With help, students are able to have partial success with learning goal. | |