**Unit Title: Here Comes the Sun’s Energy**

**Benchmarks:**

SC.7.P.10.1: Illustrate that the sun's energy arrives as radiation with a wide range of wavelengths, including infrared, visible, and ultraviolet, and that white light is made up of a spectrum of many different colors.

SC.8.E.5.11 Identify and compare characteristics of the electromagnetic spectrum such as wavelength, frequency, use, and hazards and recognize its application to an understanding of planetary images and satellite photographs.

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| **4** | I can analyze the characteristics of waves using the electromagnetic spectrum and classify waves based on characteristics of the electromagnetic spectrum. |
| **3** | I can predict the use of a wavelength from the Electromagnetic spectrum based on its characteristics. |
| **2** | **I can define:**\_\_Frequency\_\_Hazards | \_\_I can **compare and contrast** the characteristics of waves on the electromagnetic spectrum |
| **I can define:**\_\_Wavelength\_\_Crest\_\_Trough\_\_Color\_\_Electromagnetic Spectrum\_\_radiation | \_\_I can **illustrate** that the sun’s energy arrives as radiation with a wide range of wavelengths\_\_I can **identify** the different wavelengths on the Electromagnetic spectrum including radio, microwave, infrared, visible light, ultraviolet, X-Ray, and Gamma Rays |
| **1** | With help, students are able to have partial success with content.  |

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