

Cosmic Perceptions

Hawaii Content and Performance Standards for Science

Grade 5

- SC.5.2.1** Use models and/or simulations to represent and investigate features of objects, events and processes in the real world.
- SC.5.8.2** Describe examples of what astronomers have discovered using telescopes.

Grade 6

- SC.6.2.1** Explain how technology has an impact on society and science.
- SC.6.6.4** Describe and give examples of different types of energy waves.
- SC.6.6.10** Explain how vibrations in materials set up wavelike disturbances that spread away from the source.

Grade 7

- SC.7.1.3** Explain the need to revise conclusions and explanations based on new scientific evidence.

Grade 8

- SC.8.6.1** Explain the relationship between the color of light and wavelength within the electromagnetic spectrum.
- SC.8.6.3** Identify the characteristics and properties of mechanical and electromagnetic waves.
- SC.8.8.8** Describe the composition of objects in the galaxy.
- SC.8.8.11** Describe the major components of the universe..

Earth Space Sciences (Grades 9-12)

- SC.ES.1.7** Revise, as needed, conclusions and explanations based on new evidence.
- SC.ES.2.4** Describe technologies used to collect information about the universe.
- SC.ES.8.3** Explain the possible origins and evolution of the solar system.
- SC.ES.8.9** Describe the physical and nuclear dynamics involved in the life cycle of a star.
- SC.ES.8.10** Compare different theories concerning the formation of the universe.

Physical Sciences (Grades 9-12)

- SC.PS.1.7** Revise, as needed, conclusions and explanations based on new evidence.
- SC.PS.6.6** Explain and provide examples of electromagnetic radiation and sound using a wave model.
- SC.PS.6.12** Describe nuclear reactions and how they produce energy.

Physics (Grades 9-12)

- SC.PH.1.7** Revise, as needed, conclusions and explanations based on new evidence.
- SC.PH.6.4** Describe the range of the electromagnetic spectrum (e.g., radio waves, microwaves, infrared radiation).

Biological Sciences (Grades 9-12)

- SC.BS.1.7** Revise, as needed, conclusions and explanations based on new evidence.