

## **Two Small Pieces of Glass Educational Standards (6-12)**

### **Grade 6:**

- SC.6.2.1** Explain how technology has an impact on society and science.
- SC.6.2.2** Explain how the needs of society have influenced the development and use of technologies.
- SC.6.6.4** Describe and give examples of different types of energy waves.

### **Grade 7:**

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

### **Grade 8:**

- SC.8.2.1** Describe significant relationships among society, science, technology and how one impacts the other.
- SC.8.2.2** Describe how scale and mathematical models can be used to support and explain scientific data.
- SC.8.6.1** Explain the relationships 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.8.7.1** Explain that every object has mass and therefore exerts a gravitational force on other objects.
- SC.8.8.8** Describe the composition of objects in the galaxy.
- SC.8.8.9** Explain the predictable motions of the Earth and Moon.
- SC.8.8.10** Compare the characteristics and movements of planets in our solar system.
- SC.8.8.11** Describe the major components of the universe.
- SC.8.8.12** Describe the role of gravitational force in the motions of planetary systems.

### **Physical Science:**

- SC.PS.1.6** Engage in and explain the importance of peer review in science.
- SC.PS.1.9** Explain how scientific explanations must meet a set of established criteria to be considered valid.
- SC.PS.2.1** Explain how scientific advancements and emerging technologies have influenced society.
- SC.PS.6.5** Compare transverse and longitudinal waves and their properties.
- SC.PS.6.6** Explain and provide examples of electromagnetic radiation and sound using a wave model.

### **Earth Space Science:**

- SC.ES.1.6** Engage in and explain the importance of peer review in science.
- SC.ES.1.7** Revise as needed, conclusions and explanations based on new evidence.
- SC.ES.1.9** Explain how scientific explanations must meet a set of established criteria to be considered valid.
- SC.ES.2.1** Explain how scientific advancements and emerging technology have influenced society.
- SC.ES.2.4** Describe technologies used to collect information about the universe.

### **Physics:**

- SC.PH.1.6** Engage in and explain the importance of peer review in science.
- SC.PH.1.7** Revise as needed, conclusions and explanations based on new evidence.
- SC.PH.1.9** Explain how scientific explanations must meet a set of established criteria to be considered valid.
- SC.PH.2.1** Explain how scientific advancement and emerging technologies have influenced society.
- SC.PH.6.3** Use the concepts of wave motion to predict qualitatively and quantitatively the various properties of a simple optical system.

**Biology:**

- SC.BS.1.6** Engage in and explain the importance of peer review in science.
- SC.BS.1.7** Revise as needed, conclusions and explanations based on new evidence.
- SC.BS.1.9** Explain how scientific explanations must meet a set of established criteria to be considered valid.
- SC.BS.2.1** Explain how scientific advancement and emerging technologies have influenced society.

**Chemistry:**

- SC.CH.1.6** Engage in and explain the importance of peer review in science.
- SC.CH.1.7** Revise as needed, conclusions and explanations based on new evidence.
- SC.CH.1.9** Explain how scientific explanations must meet a set of established criteria to be considered valid.
- SC.CH.2.1** Explain how scientific advancement and emerging technologies have influenced society.