

Grade 11

Earth's Place in the Universe

- 1** Recognize the life cycle of a star. [SCI.AAS.ESS.HS.1](#)

- 2** Identify the structure and motion (orbits, revolution around the sun) of the main components of our solar system. [SCI.AAS.ESS.HS.2](#)

- 2a** Identify the motion of natural and human-made objects in our solar system. [SCI.AAS.ESS.HS.2A](#)

- 2e** Use a model of Earth and the sun to recognize Earth's tilt on its axis and orbit around the sun causes the four seasons. [SCI.AAS.ESS.HS.2E](#)

- 3** Recognize examples of Alabama's contributions to space explorations. [SCI.AAS.ESS.HS.3](#)

Earth's Systems

- 4b** Identify how weather elements affect the earth's physical characteristics (e.g., wind, snow, rain, and sleet). [SCI.AAS.ESS.HS.4B](#)

- 4c** Recognize that rock can change due to cooling, pressure, heating, melting, and compaction. [SCI.AAS.ESS.HS.4C](#)

- 4d** Recognize evidence on water's effect on the surface of Earth. [SCI.AAS.ESS.HS.4D](#)

- 4e** Identify significant geologic characteristics of Alabama and the southeastern United States (e.g., caves, sinkholes, and energy resources). [SCI.AAS.ESS.HS.4E](#)

- 6c** Identify the layers of Earth and the characteristics of Earth's layers. [SCI.AAS.ESS.HS.6C](#)

- 7** Use a model to explain the water cycle, including evaporation, condensation, and precipitation, and how the sun provides the energy that drives the cycle. [SCI.AAS.ESS.HS.7](#)

- 7b** Investigate examples of how weather can be effected by the sun. [SCI.AAS.ESS.HS.7B](#)

- 8** Identify weather conditions, including temperature, wind speed, humidity, and severe weather events (e.g., tornadoes, hurricanes, floods). [SCI.AAS.ESS.HS.8](#)