

**Hawaii**  
Middle School

**Starry Night Lesson Plans**

*In order of relevance*

**Grade 5**

**Understand the Earth and its processes, the solar system, and the universe and its contents**

All Starry Night lesson plans

SC.5.8.1 Describe the relationship (size and distance) of Earth to other components in the solar system

B1 B2 I2

SC.5.8.2 Describe examples of what astronomers have discovered using telescopes

B1-B2 C1-C4 D1-D3 F1-F3 G1-G3 H1-H2 I2

SC.5.8.3 Explain that the planets orbit the sun and that the moon orbits the Earth

B1 C2 A3-A5 E3 E4

SC.5.8.4 Demonstrate that day and night are caused by the rotation of the Earth on its axis

A1

**Grade 8**

**Understand the Earth and its processes, the solar system, and the universe and its contents**

All Starry Night lesson plans

SC.8.7.1 Explain that every object has mass and therefore exerts a gravitational force on other objects

C2 F3 G3 I2

SC.8.8.3 Describe how the Earth's motions and tilt on its axis affect the seasons and weather patterns

A2 E3

SC.8.8.4 Explain how the sun is the major source of energy influencing climate and weather on Earth

F1 A2

SC.8.8.8 Describe the composition of objects in the galaxy

C1-C4 D1-D3 G1-G3 F1-F3 H1

SC.8.8.9 Explain the predictable motions of the Earth and moon

A1-A5 E3 E4

SC.8.8.10 Compare the characteristics and movement patterns of the planets in our solar system

C1-C4 B1-B2 F3 I2

SC.8.8.11 Describe the major components of the universe

G1-G4

SC.8.8.12 Describe the role of gravitational force in the motions of planetary systems

C2 I2