

Ohio
Middle School

Starry Night Lesson Plans

In order of relevance

Grade 5

Earth and Space Sciences: The Universe

Describe how night and day are caused by Earth's rotation.	A1	E1					
Explain that Earth is one of several planets to orbit the sun, and that the moon orbits Earth.	B1-B2	F3	C1-C4	A3	A4	D1-D3	I2
Describe the characteristics of Earth and its orbit about the sun (e.g. elliptical orbit, tilted axis and spherical planet).	A1-A5	C1	E1-E4	F3			
Explain that stars are like the sun, some being smaller and some larger, but so far away that they look like points of light.	F1	G2	G1	H1			

Grade 8

Earth and Space Sciences: The Universe

Describe how objects in the solar system are in regular and predictable motions that explain such phenomena as days, years, seasons, eclipses, tides and moon cycles.	A1-A5	B1-B2	E1-E4	C1-C4			
Explain that gravitational force is the dominant force determining motions in the solar system and in particular keeps the planets in orbit around the sun.	C2	A3	F3	B1	I2		
Compare the orbits and composition of comets and asteroids with that of Earth.	C1	D1-D3	B1-B2				
Describe the effect that asteroids or meteoroids have when moving through space and sometimes entering planetary atmospheres (e.g., meteor-"shooting star" and meteorite).	D1-D3						
Explain that the universe consists of billions of galaxies that are classified by shape.	H1-H2						
Explain interstellar distances are measured in light years (e.g., the nearest star beyond the sun is 4.3 light years away).	G1-G3	H1-H2					
Examine the life cycle of a star and predict the next likely stage of a star.	F3	G1-G3					
Name and describe tools used to study the universe (e.g., telescopes, probes, satellites and spacecraft).	H1-H2	I1-I2	F1-F3	E1-E4			