

Oregon
High School

Starry Night Lesson Plans
In order of relevance

EARTH/SPACE SCIENCE – THE DYNAMIC EARTH

Describe and analyze theories of Earth's origin and early history using scientific evidence.	F3	B1-B2	C1-C4				
Data indicates that our Solar System coalesced about 5 billion years ago from a recycled giant cloud of gas and dust left behind by stars that exploded long ago.	F3						
Know that as the Earth and other planets formed, the heavier elements fell to their centers.	C1						

EARTH/SPACE SCIENCE – THE EARTH IN SPACE

Explain how mass and distance affect the interaction between Earth and other objects in space.	C2	A3	F3	C3	B1	I2	
Recognize that the sun's gravitational pull holds the Earth and other planets in their orbits, just as the planets' gravitational pull keeps their moons in orbit around them.	C2	C3	F3	B1			
Explain that the force of gravity between Earth and other objects in space depends only upon their masses and the distances between them.	C2	G3					
Know that gravitational force is an attraction between masses. The strength of the force is proportional to the masses and weakens rapidly with increasing distance between them	C2	G3					

EARTH/SPACE SCIENCE – THE UNIVERSE

Describe natural objects, events, and processes outside the Earth, both past and present.	A1-A5	B1-B2	C1-C4	D1-D3	F1-F3	G1-G3	H1-H3
Know that increasingly sophisticated technology is used to learn about the universe.	F1	F2	G1-G3	H1-H3	I1-I3		
Know that the stars differ from each other in size, temperature, and age.	G2	G3					
Know, on the basis of scientific evidence, that our Universe is estimated to be over ten billion years old.	H1-H3	I3					
Stars gravitationally condensed from the hydrogen and began to fuse heavier elements and release photons in the developing discs of material from which planets and moons accreted.	F3	F1	G2				