

Georgia

High School

Starry Night Lesson Plans

In order of relevance

Georgia High School – Earth Systems

SES1. Students will investigate the composition and formation of Earth systems, including the Earth's relationship to the solar system.	B1-B2	C1-C4	D1-D3	F1-F3
a. Describe the early evolution of the Earth and solar system, including the formation of Earth's solid layers (core, mantle, crust), the distribution of major elements, the origin of internal heat sources, and the initiation of plate tectonics	F3	B1		
b. Explain how the composition of the Earth's crust, mantle and core is determined and compare it to that of other solar system objects.	C1	C3	D1	D2
d. Describe how the Earth acquired its initial oceans and atmosphere.	D2			
SES5. Students will investigate the interaction of insolation and Earth systems to produce weather and climate.	A2	F1		
a. Explain how latitudinal variations in solar heating create atmospheric and ocean currents that redistribute heat globally.	A2	F1		
f. Relate changes in global climate to variation in Earth/Sun relationships and to natural and anthropogenic modification of atmospheric composition.	A2			