

Layered Earth Geology Correlations For Nebraska State Science Standards



Middle School: Grades 5-8

Lesson Plans

8.4.2	Students will investigate and describe Earth's structure, systems, and processes	
a.	Describe the layers of Earth (core, mantle, crust, atmosphere)	A1-2
b.	Describe the physical composition of soil	C4
c.	Describe the mixture of gasses in Earth's atmosphere and how the atmosphere's properties change at different elevations	A1
e.	Compare and contrast constructive and destructive forces (deposition, erosion, weathering, plate motion causing uplift, volcanoes, earthquakes) that impact Earth's surface	B3, D1-4, E5, F3
f.	Describe the rock cycle	C2
8.4.4	Students will use evidence to draw conclusions about changes in the Earth	
a.	Recognize that the earth processes we see today are similar to those that occurred in the past (uniformity of processes)	G1-2
b.	Describe how environmental conditions have changed through use of the fossil record	B1, G1

High School: Grades 9-12

Lesson Plans

12.4.2	Students will investigate the relationships among Earth's structure, systems and processes	
b.	Describe how heat convection in the mantle propels the plates comprising Earth's surface across the face of the globe (plate tectonics)	B3
12.4.4	Students will use evidence to draw conclusions about changes in the Earth	
b.	Interpret Earth's history by observing rock sequences, using fossils to correlate the sequences at various locations, and using data from radioactive dating methods	G1
c.	Compare and contrast the physical and biological differences of the early Earth with the planet we live on today	G1-3