

EarthComm Correlations to Mississippi

Earth Science/Geology/Astronomy/Environmental Science Standards

Correlation Key: "XX" Indepth Coverage = Indepth coverage of concept in student edition "X" Coverage = Coverage in student edition and/or teacher edition supports the development of the concept.	Earth's Dynamic Geosphere	Understanding Your Environment	Earth's Fluid Spheres	Earth's Natural Resources	Earth System Evolution
	V PT E	BG RS LU	O SW C	ER MR WR	A CC CL

EARTH SCIENCE

1. Describe the elements and compounds related to the composition of the Earth's crust.															
a. List elements in the earth crust and their percentages by mass.															
b. Compare the elements in the earth crust to the elements in the atmosphere and oceans.															
2. Characterize the different types of mineral deposits.															
a. Research the six common minerals.													XX		
3. Describe the basic types of rocks and how they are formed.															
a. List the three basic types of rocks and the sources of their production.	X				XX										
4. Explain the physical and chemical processes of weathering.															
a. Research the causes of physical (mechanical) and chemical weathering.					XX				XX						
b. Analyze weathering as a type of erosion.					X				X						
c. Research the effects of physical and chemical weathering.					XX				XX						
5. Describe the processes involved in shaping the internal and external features of the Earth.															
a. Research the external processes that shape the earth's features.					X	XX	XX	XX	XX	XX					
b. Define the internal processes that shape the earth's features.	XX	XX	XX					XX							
6. Illustrate the geological timetable.															
a. Research the origins of the earth.														XX	
b. Research the scientists responsible for the theories of earth's origin.														X	
c. Investigate layering as a process of determining the earth's origin.					X										X
7. Explain how the oceans affect other processes on Earth.															
a. Determine how ocean currents affect climate.									XX						XX
b. Research ocean flora and fauna and their place in the life forms of earth.									XX						X
8. Describe the composition of the atmosphere.															
a. Investigate the different layers of the atmosphere.									X						
b. Research the Greenhouse Effect as it relates to the atmosphere.										X					XX
9. Describe the processes involved in weather and climate.															
a. Compare and contrast the terms weather and climate.									XX						XX
b. Research the circulation of the atmosphere.										X					
c. Explore the different climatic zones.															XX
d. Determine the causes of the change of seasons.															XX
10. Describe the process of the water cycle.															
a. Explore the water cycle's environmental movement.									X	X	X			XX	
b. Observe the environmental process of the water cycle.									X	X	X			XX	
11. Describe the structure and gravitational interaction of our planetary system.															
a. Investigate the sizes and spacing of the planets in our solar system.															XX
b. Define gravity and calculate gravitational pull.															XX

