Maryland Science - Next Generation

Earth's Systems: Grades 9-12

Adopted 2013

Earth's Systems HS-ESS2

HS-ESS2-1. **Develop a model to illustrate how Earth's internal and surface processes operate at different spatial and temporal scales to form continental and ocean-floor features.** HS-ESS2-1

HS-ESS2-2. **Analyze geoscience data to make the claim that one change to Earth's surface can create feedbacks that cause changes to other Earth systems.** HS-ESS2-2

HS-ESS2-3. **Develop a model based on evidence of Earth's interior to describe the cycling of matter by thermal convection.** HS-ESS2-3

HS-ESS2-4. **Use a model to describe how variations in the flow of energy into and out of Earth systems result in changes in climate.** HS-ESS2-4

HS-ESS2-5. **Plan and conduct an investigation of the properties of water and its effects on Earth materials and surface processes.** HS-ESS2-5

HS-ESS2-6. **Develop a quantitative model to describe the cycling of carbon among the hydrosphere, atmosphere, geosphere, and biosphere.** HS-ESS2-6

HS-ESS2-7. **Construct an argument based on evidence about the simultaneous coevolution of Earth systems and life on Earth.** HS-ESS2-7