

# 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

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**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

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**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

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**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

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**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

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

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