Maryland Science - Next Generation

Earth and Human Activity: Grades 9-12

Adopted 2013

Earth and Human Activity HS-ESS3

HS-ESS3-1. **Construct an explanation based on evidence for how the availability of natural resources, occurrence of natural hazards, and changes in climate have influenced human activity.** HS-ESS3-1

HS-ESS3-2. **Evaluate competing design solutions for developing, managing, and utilizing energy and mineral resources based on cost-benefit ratios.** HS-ESS3-2

HS-ESS3-3. **Create a computational simulation to illustrate the relationships among management of natural resources, the sustainability of human populations, and biodiversity.** HS-ESS3-3

HS-ESS3-4. **Evaluate or refine a technological solution that reduces impacts of human activities on natural systems.** HS-ESS3-4

HS-ESS3-5. **Analyze geoscience data and the results from global climate models to make an evidence-based forecast of the current rate of global or regional climate change and associated future impacts to Earth systems.** HS-ESS3-5

HS-ESS3-6. **Use a computational representation to illustrate the relationships among Earth systems and how those relationships are being modified due to human activity.** HS-ESS3-6