South Carolina Employability Credential

Essentials of Science 3: Earth and Space Science

EARTH'S PLACE IN THE UNIVERSE ESS1	1	**Evaluate evidence of the past and current movements of continental and oceanic crust and the theory of plate tectonics to explain the ages of crustal rocks.** E-ESS1-5
EARTH'S SYSTEMS ESS2	1	**Use evidence to argue how Earth's internal and external processes operate to form and modify continental and ocean-floor features throughout Earth's history.** E-ESS2-1
	2	**Analyze data to make the claim that one change to Earth's surface can create feedback that causes changes to other Earth systems.** E-ESS2-2
	3	**Develop a model based on evidence of Earth's interior that describes cycling of matter through convection processes.** E-ESS2-3
	4	**Use a model to describe how causes of short and long-term variations in the flow of energy into and out of Earth's systems result in changes to 86 climate.** E-ESS2-4
	5	**Investigate the ways that water (given its unique physical and chemical properties) impacts various Earth systems.** E-ESS2-5
	6	**Communicate scientific information that illustrates how Earth's systems and life on Earth change and influence each other over time.** E-ESS2-7
EARTH AND HUMAN ACTIVITY ESS3	1	**Construct an explanation based on evidence for how the availability of natural resources and occurrence of natural hazards have influenced human activity.** E-ESS3-1
	2	**Use computational representation to illustrate the relationships among the management of Earth's resources, the sustainability of human populations, and biodiversity.** E-ESS3-3
	3	**Analyze data and the results from global climate models to make an evidence-based forecast of the current rate of regional or global climate change and associated future impacts to Earth's systems.** E-ESS3-5
	4	**Use a computational representation to illustrate the relationships among Earth ystems and how those relationships are being modified due to human ctivity.** E-ESS3-6

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5 **Create an argument, based on evidence, that describes how changes in climate on Earth have affected human activity.** E-ESS3-7