

Model of Earth's Interior

Due: Tue. 12/20

Science Standard: S6E5a

- ◆ Compare and contrast the Earth's crust, mantle, and core – including the temperature, density and composition.
- ◆ Compare and contrast the chemical vs. physical layers of the Earth

Essential Questions:

- ◆ What is the difference in the temperature of the crust, mantle, outer core, and inner core?
- ◆ What is the difference in the density of the crust, mantle, outer core, and inner core?
- ◆ What is the composition of the crust, mantle, outer core, and inner core?

Performance-based Assessment

Students will either construct a model *or* detailed illustration of Earth's interior. The criteria are as follows:

1. Students will use a graphic organizer to record the necessary information for the model/illustration.
2. Each chemical layer of the Earth must include:
 - a. Temperature (range)
 - b. Density
 - c. Description of the composition
3. The model should be a cut away of Earth's interior and may be built out of any reasonable material.
4. Students will need to include a Reference page and identify at least (3) sources of information. The issued text will be one such source.

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	Poor (5 pts)	Fair (7 pts)	Good (10 pts)	Total
Planning & Development	Little or no evidence of pre-planning (sketch, proposal, etc.)	Some evidence of pre-planning	Sufficient evidence of pre-planning	
Elements of Model/Illustration	Little or no evidence of key features (layers, temperature, etc.)	Some evidence of key features	Sufficient evidence of key features	
Aesthetics/Layout	Fairly attractive model; grammatical or structural errors	Moderately attractive model; few grammatical or structural errors	Highly attractive model; little or no grammatical or structural errors	
References	One identified resource	Two identified resources	Three or more identified resources	
Presentation	Presentation and explanation of information was incomplete and/or inaccurate.	Presentation and explanation of information was satisfactory but some elements were absent.	Presentation and explanation was organized and accurate.	

Total ____ x 2 = _____