

Earth Science Quarter Project: 3D Earth Model

For the next few weeks, you will have the opportunity to create a 3D model of the earth's core. The model will be made from your choice of materials so be creative, but neat. This is your opportunity to explore and have fun with science. Your project is due **TUES OCT 21, 2008**. There are several requirements for your project that are listed below.

Requirements:

- The model *must be* 3D
- The model must include the required components of the interior
- All of the components must be labeled on the 3D model
- A typed reference sheet with all of the components as well as their definitions
- The project must be sturdy enough to travel from home to school without falling apart

In detail:

- The components you must have on your 3D Earth model include
 - Mantle
 - Crust
 - Lithosphere
 - Asthenosphere
 - Outer core
 - Inner Core
 - An arrow showing the direction of increasing heat and pressure
- This means that you should have a total of **7** components labeled on your model.
- Each component must be present on your model and clearly labeled! Its location must also be correct. For example, the outermost layer of the earth should not be labeled as the outer core.
- Be creative with your building materials but be aware that they should be sturdy and non-perishable. I don't want to place these models on display and have moldy cores!
- Models should be sturdy enough to make the trip from home to school without breaking. Models that cannot make this trip and arrive to school broken will have points deducted. This means that you should choose your building materials carefully. I suggest that you design your model first and then choose the appropriate materials to build it based off of your design.
- Make sure that your model is clearly labeled with your name on it. You will receive points off for a project without a legible, visible name.
- Your reference sheet must also have your name on it as well as all of the components listed above and their definitions. This should be typed, with Times New Roman font, size 12. You should also have 1 inch margins on your paper.
- Look at the grading criteria sheet as you are doing your project to make sure that you complete all that you need to.

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DUE DATE: Tues Oct 21, 2008

A three dimensional model of the earth must be made with materials of your choosing. The model must include a reference list of all the components and their definitions.

Neatness (project must be 3D, neat, creative and sturdy)	/10
Structures included	
Mantle (presence, location, definition)	/5
Crust (presence, location, definition)	/5
Lithosphere (presence, location, definition)	/5
Asthenosphere (presence, location, definition)	/5
Outer Core (presence, location, definition)	/5
Inner Core (presence, location, definition)	/5
Heat and Pressure Arrow (presence, location, definition)	/5
Reference sheet with definitions (typed with all of the components listed above)	/15
Your name on the project	/5
TOTAL	/65