**Model of Earth’s Layers Project**

Students will create a model to show the structural and compositional layers of the Earth. We encourage students to use everyday household materials to create their model.  **Do not use food or perishable materials.** This model should be 3 dimensional, not a flat 2 dimensional drawing or layered construction paper composition. Students will be graded on neatness and following directions (i.e. having a 3 dimensional model, including all of the labeled layers that are easily distinguishable - either by being different in color or material.)

Students will be graded according to the following rubric (**5 points**):

|  |  |  |
| --- | --- | --- |
| 10 points | Your model is **3-dimensional.** | It should not be a flat 2-dimensional drawing or layered construction paper |
| 10 points | Your model is **neat** and pleasing to the eye. The layers are labeled **neatly**. | It should look like you put some thought into the design of your project and didn’t just throw it together at the last minute. |
| 10 points | The **inner core** is labeled and in the correct place. | a. Composition  b. Density  c. State of matter  d. Thickness |
| 10 points | The **outer core** is labeled and in the correct place. | a. Composition  b. Density  c. State of matter  d. Thickness |
| 10 points | The **lower mantle** is labeled and in the correct place. | a. Composition  b. Density  c. State of matter  d. Thickness |
| 10 points | The **upper mantle** is labeled and in the correct place. | a. Composition  b. Density  c. State of matter  d. Thickness |
| 10 points | The **crust** is labeled and in the correct place. | a. Composition  b. Density  c. State of matter  d. Thickness |
| 5 points | The **lithosphere** is labeled and in the correct place. | Consists of two layers. |
| 5 points | The **asthenosphere** is labeled and in the correct place. | Located below the lithosphere. |
| 5 points | **Convection currents**  are labeled. | Located in a particular layer. |

This project is due on or before \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

Dear Parents/Guardians,

The 6th grade science classes will be constructing a model of Earth’s layers. Although some guidance may be necessary, please encourage your child to complete this project on his/her own.

I am aware that my child, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, has a “Layers of Earth” project for science that is due \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

Student name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Parent/Guardian: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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