**Pizza the Earth**

**Angle of the “pizza slice”: \_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Data table: Layers**

The scale for our model will be **1cm = 150 km**.

|  |  |  |  |
| --- | --- | --- | --- |
| **Layer** | **Thickness (km)** | **Thickness - model (cm)** | **Color** |
| Lithosphere |  |  |  |
| * Crust |  |  |  |
| Asthenosphere |  |  |  |
| Mesosphere |  |  |  |
| Outer Core |  |  |  |
| Inner Core |  |  |  |

**Use the information from the data table to answer the following questions:**

What is the radius of the Earth? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

What is the radius of our scale model? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

How many kilometers would it take to get from one side of the Earth to the other? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**I put my slice in the pizza! \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

(Get this stamped when you add your pizza slice to the class model.)

1. Examine the completed pizza model of the Earth the class created. What is something it helps you to better understand about Earth’s interior?
2. What you have just helped create is a model of the Earth. Models are used often by scientists in order to study things that are too small, too large, or that can’t be manipulated. All models have their strengths (things that are good about them) and their weaknesses (things that they don’t do well).

In the chart below, evaluate the strengths and weaknesses of the pizza the earth model we created. Give 3 strengths of the model, and 3 weaknesses of the model. Be sure to use complete sentences.

|  |  |
| --- | --- |
| **3 Strengths** | **3 Weaknesses** |
|  |  |

1. Based on your evaluation, do you think the “pizza” is a useful model of the Earth’s interior? Why or why not?
2. If you were asked to bring in something from home that could be used to model the Earth’s interior, what would you bring in and why? (Be specific about how it would model Earth’s interior!)