Physical Composition and Chemical Composition of the Layers of the Earth Foldable Instructions

Purpose: Compare and contrast the Earth’s crust, mantle, inner and outer core, including temperature, density, thickness, and composition.

***Front Cover:***

1. **Fold paper to create two flaps.**
2. **Draw a diagram TO SCALE similar to the one on your notes that includes both the Chemical and Physical layers.**
3. **Label each side with the correct layers.**

**Left Side: Titled “Chemical Layers”**

**Crust**

**Mantle**

**Core**

**Right Side: Titled “Physical Layers”**

**Lithosphere**

**Asthenosphere**

**Mesosphere**

**Outer Core**

**Inner Core**

***Inside:***

1. **On the inside flap, label each layer and describe the information requested below.**

**Chemical Layers:**

Crust:

Temperature:

Density:

Thickness:

Chemical Composition:

Mantle:

Temperature:

Density:

Thickness:

Chemical Composition:

Core:

Temperature:

Density:

Thickness:

Chemical Composition:

**Physical Layers:**

Lithosphere:

Chemical Composition:

Physical Characteristics:

Thickness

Asthenosphere:

Chemical Composition:

Physical Characteristics:

Thickness

Mesosphere:

Chemical Composition:

Physical Characteristics:

Thickness

Inner Core:

Chemical Composition:

Physical Characteristics:

Thickness

Outer Core:

Chemical Composition:

Physical Characteristics:

Thickness

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| |  | | --- | | **Making A Foldable : Layers of the Earth**  Student Name:     \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | |

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| CATEGORY | **4** | **3** | **2** | **1** |
| **Chemical Layers Diagram** | Each of the 3 chemical layers is correctly drawn on the outside of the foldable. | Only 2 of the chemical layers are correctly drawn on the outside of the foldable | Only 1 of the chemical layers is correctly drawn on the outside of the foldable | None of the 3 chemical layers are correctly drawn on the outside of the foldable |
| **Physical Layers Diagram** | Each of the 5 physical layers is correctly drawn on the outside of the foldable. | 4 of the 5 physical layers are correctly drawn on the outside of the foldable. | 3 of the 5 physical layers are correctly drawn on the outside of the foldable. | 2 or less of the 5 physical layers are correctly drawn on the outside of the foldable. |
| **Labeling** | All 8 of the Chemical and Physical layers are correctly labeled on the inside and outside of the foldable. | 6 to 7 of the Chemical and Physical layers are correctly labeled on the inside and outside of the foldable. | 4 to 5 of the Chemical and Physical layers are correctly labeled on the inside and outside of the foldable. | Less than 3 of the Chemical and Physical layers are correctly labeled on the inside and outside of the foldable. |
| **Chemical Layers Temperature** | All 3 of the Chemical layers temperatures are correctly stated. | 2 of the Chemical layers temperatures are correctly stated. | 1 of the Chemical layers temperatures are correctly stated. | None of the Chemical layers temperatures are correctly stated. |
| **Chemical Layers Density** | All 3 of the Chemical layers densities are correctly stated. | 2 of the Chemical layers densities are correctly stated. | 1 of the Chemical layers densities are correctly stated. | None of the Chemical layers densities are correctly stated. |
| **All Layers Composition** | All 8 of the Chemical and Physical layers compositions are correctly stated. | 6 to 7 of the Chemical and Physical layers compositions are correctly stated. | 4 to 5 of the Chemical and Physical layers compositions are correctly stated. | 3 or less of the Chemical and Physical layers compositions are correctly stated. |
| **All Layers Thickness** | All 8 of the Chemical and Physical layers thicknesses are correctly stated. | 6 to 7 of the Chemical and Physical layers thicknesses are correctly stated. | 4 to 5 of the Chemical and Physical layers thicknesses are correctly stated. | 3 or less of the Chemical and Physical layers thicknesses are correctly stated. |
| **Physical Characteristics** | All 5 of the Physical layers characteristics are correctly stated. | 4 of the Physical layers characteristics are correctly stated. | 2 to 3 of the Physical layers characteristics are correctly stated. | 1 or none of the Physical layers characteristics are correctly stated. |
| **Diagrams Colored** | All layers of the diagrams on the outside of the foldable are colored. | 6 to 7 layers of the diagrams on the outside of the foldable are colored. | 4 to 5 layers of the diagrams on the outside of the foldable are colored. | 3 or less of the layers of the diagrams on the outside of the foldable are colored. |
| **Attractiveness** | The foldable is exceptionally attractive in terms of design, layout, and neatness. | The foldable is attractive in terms of design, layout, and neatness. | The foldable is acceptably attractive in terms of design, layout, and neatness. | The foldable is distractingly messy or poorly designed. It is not attractive. |