***Sphere Interactions Activity*** Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

5th Grade PSI

**Experimental Question:**

How do the different spheres of the Earth interact?

What impact does a single event have on the spheres?

**Purpose:**

In this activity, you will read to learn about a natural or human-caused event. You will make a diagram to show how the event interacts with the different spheres on the earth.

**Materials**:

* Reading material
* Graphic organizer
* Colored pencils

**Procedure:**

1. Select an event from the Events List or one that is approved by your teacher.
2. Create sphere interaction diagram similar to the one in the presentation for your event.
3. Place your event in the center of the diagram and label each of the four spheres of the earth.
4. Add interactions between the spheres in the sphere it impacts the most. Use a different color for each interaction.
5. Each time you add an interaction, draw an arrow to or from the other spheres to represent the interactions.

|  |  |  |  |
| --- | --- | --- | --- |
| **Events** | | | |
| Wildfire | Acid Rain | Flood | Drought |
| Tsunami | Oil Spill | Hurricane | Tornado |
|  | Deforestation | Ozone Depletion |  |

**Sphere Interactions Diagram**

**Sphere Interactions Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ #**

**Analysis Questions:**

1. Describe the impact of your event on the different spheres of the Earth.

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1. Were there any interactions that involved all the spheres? If so, give an example.

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1. Which sphere was the most impacted by your event? Which was the least impacted?

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1. What is the importance of understanding the interactions between the spheres?

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