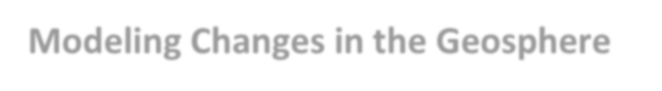
Page

|

**1**

Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_



**Modeling Changes**

**in the Geosphere**



**Purpose**

:

To model changes in the geosphere



**Background Information:** Weathering is the natural process of rock and soil material being worn away. Erosion is the process of transporting, or moving rocks and soil downhill or into streams, rivers, or oceans. Deposition is the accumulation or collecting and settling of matter by a natural process, as in the laying down of sediments in streams or rivers.

**Materials**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Skittles | Eye dropper | Petri dish | Water | Metric ruler |

**Procedure**:

1. Work with your partner.
2. Put a Skittle in the petri dish, “S” side up.
3. Observe the Skittle carefully. Record your observations. Include a drawing.
4. Use the eyedropper to drop 10 drops of water on the candy from a height of 15 cm.
5. Observe the candy and record your observations.
6. Repeat steps 4 and 5 - 10 drops at a time - for a total 50 drops.

**Data**:

|  |  |  |
| --- | --- | --- |
|  | **Observations of Skittles After Dropping Water On Them** | |
| **Number of Drops** | **Written Observations** | **Drawing** (use color) |
| 0 |  |  |
| 10 |  |  |
| 20 |  |  |
| 30 |  |  |
| 40 |  |  |
| 50 |  |  |

P a g e | **2**

**Questions**:

Was this data ***qualitative*** or ***quantitative***? Explain your answer.

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Did any part of the candy actually disappear? Explain your answer.

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What did you observe about the color of the candy?

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Why do you think this happened?

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*The dropping of water on to the candy modeled rain dropping on a rock. This would be an example of mechanical weathering. The color “broke off” of the candy rock and moved away from the rock. The color then settled to the bottom of the dish.*

What does the movement of the color model?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ What does the settling of the color model?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_