Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date\_\_\_\_\_\_\_\_\_\_ Period\_\_\_\_



**Lab: Deformation**

*Directions: Read through the review chart below and answer the pre-lab questions. Then, rotate through the stations, identifying each as ELASTIC or PLASTIC. Be sure to include observations of the object, and a reason for your classification!*

|  |
| --- |
| * ELASTIC - when a material is compressed, bent, or stretched. * Plastic - caused when a material is permanently deformed. * The point at which the earth’s crust has reached its elastic limit is when permanent deformation occurs. |

Pre-Lab Questions

1. What is the difference between elastic and plastic?

2. When an earthquake occurs, explain what has happened. You must use the terms, **elastic** and **plastic**.

|  |  |  |  |
| --- | --- | --- | --- |
| Material | Observation  (*drawing)* | Elastic Deformation  **OR**  Plastic Deformation | How do you know? |
| 1. |  |  |  |
| 2. |  |  |  |
| 3. |  |  |  |
| 4. |  |  |  |
| 5. |  |  |  |
| 6. |  |  |  |
| 7. |  |  |  |
| 8. |  |  |  |
| 9. |  |  |  |