**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Class: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Lab Investigation Sheet**

**Observation**: I found a reaction for super stretch slime.

Super-Stretchy slime reaction: 118 ml glue + 7.4 ml contact solution + 1.5 g baking soda = Fast Stretchy Slime

**Problem**: What reactant causes the slime to stretch fast?

**Research**: Read the attachment for research on stretchy slime.

**Hypothesis**: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Procedure:** Follow the same procedures that were used for creating and testing the previous slime sample, but change the amount of the reactant you are testing according to the Group Planning below:

Experimental Group Planning:

|  |  |  |  |
| --- | --- | --- | --- |
| Sample 1 | Sample 2 | Sample 3 | Sample 4 |
| blue food coloring – 2 drops  glue - 118 ml glue  baking soda - 1.5 g  contact solution - 7.4 | green food coloring – 2 drops | yellow food coloring - 2 drops | red food coloring - 2 drops |

Data Sheet

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Marbles | Bag of 10 | Bag of 20 | Bag of 30 | Bag of 40 |
| Mass (g) | g | g | g | g |

**Slime Stretch Data Table**

**Sample 2**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Time (sec) | Distance (cm)  No added stress | Distance (cm)  Added stress (g) | Distance (cm)  Added stress (g) | Distance (cm)  Added stress (g) | Distance (cm)  Added stress (g) |
| 0 | 0 | 0 | 0 | 0 | 0 |
| 5 |  |  |  |  |  |
| 10 |  |  |  |  |  |
| 15 |  |  |  |  |  |
| 20 |  |  |  |  |  |
| 25 |  |  |  |  |  |
| 30 |  |  |  |  |  |
| 35 |  |  |  |  |  |
| 40 |  |  |  |  |  |
| 45 |  |  |  |  |  |
| 50 |  |  |  |  |  |
| 55 |  |  |  |  |  |
| 60 |  |  |  |  |  |
| 65 |  |  |  |  |  |
| 70 |  |  |  |  |  |
| Snapped?  Yes or No |  |  |  |  |  |
| Average Speed |  |  |  |  |  |
| Instantaneous Speed at 15 cm |  |  |  |  |  |

**Slime Stretch Data Table**

**Sample 3**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Time (sec) | Distance (cm)  No added stress | Distance (cm)  Added stress (g) | Distance (cm)  Added stress (g) | Distance (cm)  Added stress (g) | Distance (cm)  Added stress (g) |
| 0 | 0 | 0 | 0 | 0 | 0 |
| 5 |  |  |  |  |  |
| 10 |  |  |  |  |  |
| 15 |  |  |  |  |  |
| 20 |  |  |  |  |  |
| 25 |  |  |  |  |  |
| 30 |  |  |  |  |  |
| 35 |  |  |  |  |  |
| 40 |  |  |  |  |  |
| 45 |  |  |  |  |  |
| 50 |  |  |  |  |  |
| 55 |  |  |  |  |  |
| 60 |  |  |  |  |  |
| 65 |  |  |  |  |  |
| 70 |  |  |  |  |  |
| Snapped?  Yes or No |  |  |  |  |  |
| Average Speed |  |  |  |  |  |
| Instantaneous Speed at 15 cm |  |  |  |  |  |

**Slime Stretch Data Table**

**Sample 4**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Time (sec) | Distance (cm)  No added stress | Distance (cm)  Added stress (g) | Distance (cm)  Added stress (g) | Distance (cm)  Added stress (g) | Distance (cm)  Added stress (g) |
| 0 | 0 | 0 | 0 | 0 | 0 |
| 5 |  |  |  |  |  |
| 10 |  |  |  |  |  |
| 15 |  |  |  |  |  |
| 20 |  |  |  |  |  |
| 25 |  |  |  |  |  |
| 30 |  |  |  |  |  |
| 35 |  |  |  |  |  |
| 40 |  |  |  |  |  |
| 45 |  |  |  |  |  |
| 50 |  |  |  |  |  |
| 55 |  |  |  |  |  |
| 60 |  |  |  |  |  |
| 65 |  |  |  |  |  |
| 70 |  |  |  |  |  |
| Snapped?  Yes or No |  |  |  |  |  |
| Average Speed |  |  |  |  |  |
| Instantaneous Speed at 15 cm |  |  |  |  |  |