



# The Science of Elasticity

## DIY Slime Temperature Experiment

### EQUIPMENT

Item	Number of items	Units
Liquid Glue	¼	Cup
Liquid Fabric Softener	¼	Cup
Water	¼	Cup
Mixing Bowl	1	pcs
Spatula or Spoon	1	pcs
Safety Glasses	1	pcs
Sandwich Bag	2	pcs
Access to Freezer	1	Pcs
Food Coloring (Optional)	3-5	Drops
Glitter (Optional)	1	Tsp

### PROCEDURE

With Adult Supervision, make Homemade Slime by following the instructions below:

1. Measure out ¼ cup of water and put into mixing bowl
2. Measure out ¼ cup of Glue and combine with the water in the mixing bowl
3. If you want to change the color, add 3-5 drops of the food coloring of your choice
4. If you want to make the slime glittery, add 1 tsp of the glitter of your choice
5. Mix thoroughly with a spatula or spoon
6. Measure out ¼ cup of liquid starch and combine with the water-glue mixture
7. Mix thoroughly with spatula or spoon
8. Utilizing your hands, continue to mix the components and squeeze to ensure the fluid inside the slime ball is mixed thoroughly. **NOTE: If the slime is too slick, add more glue. If the slime is “runny” or overly sticky, add more liquid starch.**
9. Once thoroughly mixed, divide the slime in half and place each half into a separate Ziploc bag
10. Put one bag in the freezer for 30 minutes and leave the other at room temperature
11. While waiting, fill out the **Observation: Mixing** and **Hypothesis** Sections of the Worksheet.
12. **AFTER 30 MINUTES** – safely lift both slimes in your separate hands to the same height and conduct a gravity drop
13. Fill out the remaining **Observation** sections of the Worksheet. Share and compare results with others in your group / class / family.

# SUPERHERO



# SCIENCE

## DIY Slime Temperature Experiment Worksheet

**QUESTION:** What effect does cold temperature have on the Elasticity of Slime?

**HYPOTHESIS:** I think that the slime that has been in the freezer for 30 minutes will feel...

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I think that freezing the slime will effect how it drops by...

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**OBSERVATIONS:** While mixing my slime I noticed...

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After freezing my slime I noticed it felt...

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After dropping my slimes from the same height I noticed...

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**CONCLUSION:** The temperature affected the elasticity of the slime by...

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# SCIENCE

## Science of Elasticity Worksheet

### THEORY QUESTIONS

1. What is Elasticity? What are some words associated with Elasticity?

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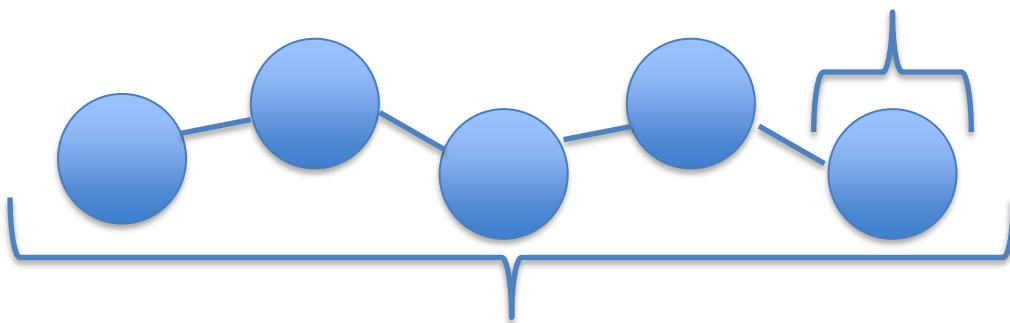
2. What is an example of how Helen Parr (Elastigirl) uses her Superhuman Elasticity?

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3. Label the Polymer and the Monomer in this image:



4. What are some everyday examples of Elastomers?

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SUPERHERO



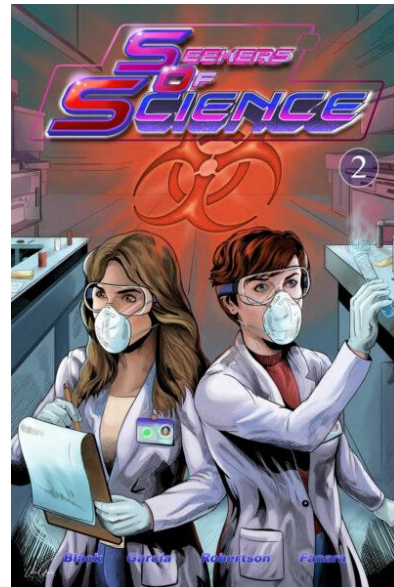
SCIENCE

## “Seekers of Science”

Seekers Of Science (S.O.S.) is a comic that is about using real-life science in real-life situations to try and save the world. It stars two real-life scientists, Dr. Tracy Fanara and Tamara Robertson, as they use their skills and those of other scientists around the world to help stop the problems that are put in front of them.

Each issue or arc focuses on a different part of the world of science. From handling pollution to the science of making medicine and so much more. It’s our hope that those who read this comic will be inspired by it and want to learn more about what science and more have to offer the world. As well as showing that ANYONE can be part of the STEM (Science, Technology, Engineering, and Mathematics) fields. And it’s so diverse, that you can find something that speaks to you and your personality.

### FREE ISSUES



Each attendee of the USA Science Festival will be the recipient of “Seekers of Science” Issue 1 and 2 digitally for FREE by going to:

<https://tinyurl.com/SOSComicOutreach>

Please share photos of you conducting S.O.S DIY Experiments with us at @sos.comicbook on IG. Find out more about how you can join the “Seekers of Science” team at [www.seekersofscience.com](http://www.seekersofscience.com)