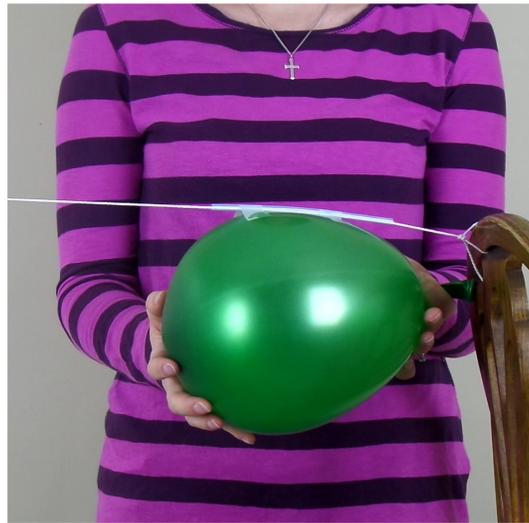


# 3 SIMPLE SCIENCE EXPERIMENTS FOR KIDS!



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Science Experiments  
HEADQUARTERS



# Hi there!



I'm Danielle, a wife and mom of two young children. While I'm not a scientist by trade, I do enjoy experiencing the excitement and wonder of science experiments with my children.

Science is a great source of education and entertainment for our family. It provides countless opportunities for laughter and learning.

I hope you try an experiment (or two!) and see for yourself how fun science can be.

If at any point you have questions, please let me know. Connect with me on Twitter or Facebook. Say 'Hello' and share some pictures of the cool science experiments you are doing. Remember to use the hashtag #CoolScienceHQ.

Have fun making memories one Cool Science Experiment at a time!

Danielle

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## Items needed for all Three Experiments:

- |   |   |
|---|---|
| <input type="checkbox"/> 2 Balloons                           | <input type="checkbox"/> Food Coloring (optional) |
| <input type="checkbox"/> Plastic Drinking Straw               | <input type="checkbox"/> Paper Towel              |
| <input type="checkbox"/> String – 12ft or more                | <input type="checkbox"/> Small Soda Bottle        |
| <input type="checkbox"/> Scotch Tape                          | <input type="checkbox"/> Baking Soda              |
| <input type="checkbox"/> Two Drinking Glasses of Equal Height | <input type="checkbox"/> Vinegar                  |
| <input type="checkbox"/> Water                                | <input type="checkbox"/> Funnel                   |
|   | <input type="checkbox"/> Teaspoon                 |

**Disclaimer:** *Safety is a priority with every science experiment. Before conducting any of the experiments you must get an adult's permission and help, follow the instructions provided as written and wear the appropriate safety gear (protective eye wear, clothing, etc). Have fun and stay safe!*

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## Balloon Rocket Science Experiment

[Click Here to Watch the Experiment](#)

### Supplies Needed:

- Balloon
- Plastic Drinking Straw
- String
- Tape
- Two objects of the same height that you can tie a string to. I used chairs.

### Instructions:



**Step 1** - Position two objects of the same height (I'm using chairs) about 10 feet apart and grab a piece of string.



**Step 2** - Tie one end of the string to one of the objects. Make sure it is securely fashioned.



**Step 3** - Next, get a straight plastic drinking straw. If the straw is one of the "bendy" straws with the flexible piece, cut off the flexible part so you are left with a straight straw.

### Helpful Tip:

Make the experiment even more interactive and have your kids try to race the balloon across the room. Ready, Set, Go!



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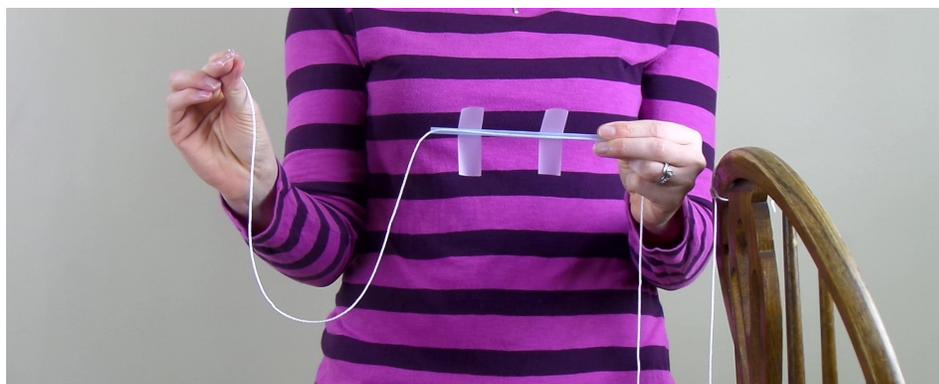
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## Balloon Rocket Science Experiment

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**Step 4** - Place two pieces of tape on the straw



**Step 5** - Thread the string through the straw



**Step 6** - Tie the loose end of string to the back of your second object (I'm using another chair) and make sure the string is tight. If the string isn't tight, move the objects farther apart until it is.

### Helpful Tip:

It's best to position the two pieces of tape near the middle of the straw. If you put them near the ends of the straw, the straw will bend when you blow up the balloon and the rocket won't move as quickly.



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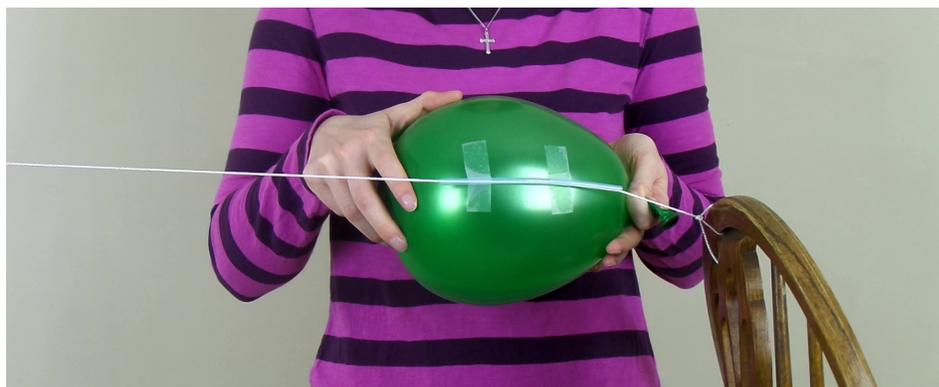
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## Balloon Rocket Science Experiment

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### How Does the Experiment Work?

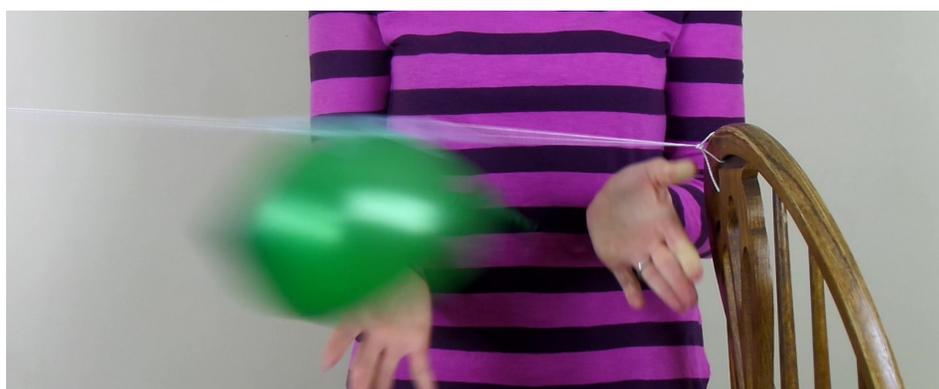
As the air is released out of the balloon in one direction, the force propels the balloon in the other direction. The result is the balloon flying across the string like a rocket!



**Step 7** - Blow up the balloon and hold the end so the air can't escape and use the two pieces of tape to secure the balloon to the straw.



**Step 8** - Move the straw and balloon to one end of the string. And once you are ready.....



**Step 9** - Let go of the balloon and watch as it rockets across the string! Then inflate the balloon again and repeat again and again.



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## Walking Water Science Experiment

[Click Here to Watch the Experiment](#)

### Supplies Needed:

- Two glasses of equal height
- Water
- Food Coloring (optional)
- Paper Towel

### Instructions:



**Step 1** – Position your two empty glasses about 2 inches apart. Pour water into one of the glasses until it is halfway full.



**Step 2** – Add a few drops of food coloring into the water. *\*Optional, but it will help you see the water “walking” more clearly.*



**Step 3** – Stir the food coloring until the water is all one color.

### Helpful Tip:

Use three glasses for another variation of this experiment. Fill two of the glasses, each with different colored water. Then use two paper towels so the water walks from the two full glasses to the one empty glass. It will be a lesson in mixing colors too.



## Walking Water Science Experiment

[Click Here to Watch the Experiment](#)

### Helpful Tip:

I used one section of paper towel and folded it in half until it was the correct width.

### Helpful Tip:

The longer you wait to check on the glasses will result in more of the water moving over to the other glass. The water will stop moving over once the cups are both filled with the same amount of water.



**Step 4** – Grab a strip of paper towel that is about 1 to 2 inches wide.



**Step 5** – Place one end of the paper towel into the glass with the water. Then place the other end into the glass that is empty. Then leave the glasses sit and come back to check on them in about an hour.



**Step 6** – Return to the glasses and observe what has happened.

## How Does the Experiment Work?

The water appears to defy gravity, but in reality it moves because of a process called capillary action. This happens because the adhesive forces between the water and the paper towel are stronger than the cohesive forces inside the water. As a result, the water travels up and across the paper towel out of one glass and into another.

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## Balloon Blow-up Science Experiment

[Click Here to Watch the Experiment](#)

### Supplies Needed:

- Small Soda Bottle
- Balloon
- Baking Soda
- Vinegar
- Funnels
- Teaspoon

### Instructions:



**Step 1** – Using a funnel, pour about a third of a cup of vinegar into the bottle.



**Step 2** – Then insert another funnel into the mouth of the balloon.



**Step 3** – Place two teaspoons of baking soda into the funnel so it falls into the balloon. Then remove the balloon from the funnel.

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## Balloon Blow-up Science Experiment

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### How Does the Experiment Work?

When baking soda and vinegar are mixed together, it creates a gas called carbon dioxide. The gas begins to expand in the bottle and starts to inflate the balloon. The more gas that is created, the larger the balloon will inflate.



**Step 4** – Next, secure the mouth of the balloon over the top of the bottle. Don't let any of the baking soda fall into the bottle...yet!



**Step 5** – While holding the bottle, lift the end of the balloon allowing the baking soda to drop into the bottle.



**Step 6** – Watch in amazement as the balloon magically inflates.

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I hope you enjoyed these science experiments as much as my family.

Check out my website where you will find many more experiments that you can do at home too. Sign up to receive my weekly newsletter.

Share a picture or two on Facebook, Twitter or Instagram. Remember to use the hashtag #CoolScienceHQ so I can find them.

Invite other to join as well. After all, science is more fun when shared with family and friends!

Here's to making memories one Cool Science Experiment at a time!

Danielle

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Thank You!



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