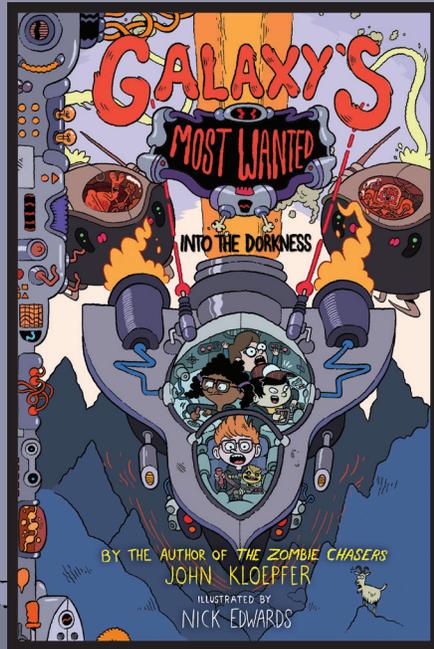


# ★ SIMPLE SCIENCE PROJECTS TO DO ★ WHILE SAVING THE WORLD

Experiments are a little more hands-on for Kevin and his science camp friends—they're blasting off into outer space to save the world from an intergalactic war! Want to get your hands dirty, too? Here are some easy and fun science experiments you can try at home!

**\*Adult supervision required.**



## SELF-INFLATING BALLOON

MATERIALS	PROCEDURE	THE SCIENCE
Empty water bottle Balloon Vinegar 1 tsp baking soda Funnel	<ol style="list-style-type: none"> <li>1. Fill the water bottle about halfway with vinegar.</li> <li>2. Stretch out the balloon.</li> <li>3. Using the funnel, add the baking soda to the balloon, making sure all of it goes to the bottom.</li> <li>4. Stretch the opening of the balloon onto the opening of the water bottle so that it is securely attached. Be careful not to let the baking soda fall into the water bottle.</li> <li>5. Once the balloon is attached, hold it up so that the baking soda now falls into the vinegar in the bottle.</li> <li>6. Watch the balloon start to inflate!</li> </ol>	The vinegar is an acid and the baking soda is a base. When mixed together, a chemical reaction occurs, producing carbon dioxide. The carbon dioxide expands, inflating the balloon.  



## BORAX BOUNCY BALL

MATERIALS	PROCEDURE	THE SCIENCE
<p>2 disposable plastic cups                      ½ tsp borax                      2 tbsp warm water                      Measuring spoons                      Disposable spoons for stirring                      Food coloring                      1 tbsp white glue or clear glue                      1 tbsp cornstarch</p>	<ol style="list-style-type: none"> <li>1. In one of the cups, combine the borax and warm water. Stir until the borax is dissolved. Add five drops of food coloring in your preferred color.</li> <li>2. Pour the glue into the other cup. Add a ½ tsp of the borax mixture and then add the cornstarch. Wait 10 to 15 seconds and then stir the mixture vigorously until it thickens.</li> <li>3. Use your hands to scoop the mixture out of the cup and work the mixture with your hands like you are making a snowball. When you have a nice, round shape, set it aside to harden for 5-10 minutes.</li> <li>4. Wash your hands and then bounce away!</li> </ol>	<p>A polymer is a molecule made up of repeating chemical units. Polymers are used to make clothing, toys, cookware, and more. In this case, glue contains a polymer.</p> 

## ROCKIN' ROCK CANDY

MATERIALS	PROCEDURE	THE SCIENCE
<p>A wooden skewer                      A clothespin                      1 cup of water                      2-3 cups of sugar                      A tall glass or jar                      Saucepan</p> 	<ol style="list-style-type: none"> <li>1. Clip the clothespin to the wooden skewer so that the skewer can hang down inside the glass without touching the sides.</li> <li>2. Pour the water into the saucepan and bring it to a boil on the stove.</li> <li>3. Pour ¼ cup of the sugar into the pan and stir until the sugar dissolves.</li> <li>4. Continue stirring and add more sugar. Keep adding the sugar until no more will dissolve in the water. This might take up to 20 minutes.</li> <li>5. Remove the sugar solution from the heat and allow it to cool.</li> <li>6. Pour the cooled sugar solution into the glass and dip the skewer in, resting the clothespin on top.</li> <li>7. Now you wait! Go off and fight some evil aliens and when you return in 3-7 days, you will come home to delicious sugar crystal rock candy!</li> </ol>	<p>When the water is hot, it can hold a lot of sugar. As it cools, the sugar can no longer "fit" inside the water so it starts to recrystallize. The skewer acts as a seed on which the sugar crystals grow.</p> 