

Baking Soda Rocket

Using a baking soda rocket for STEM education is a fun way to teach physics and chemistry. Children learn about chemical reactions and see motion and trajectory in action. Hands-on learning helps children understand scientific concepts and develop a love for science. Building and launching a baking soda rocket improves teamwork and problem-solving skills. It's a valuable and exciting way to inspire young minds.



What you need:

- 3 TBS baking soda
- 3 cups of vinegar
- One coffee filter
- One Paper Towel
- An empty, clean pop bottle with the lid
- Four unsharpened pencils
- Duct Tape
- Décor for the outside of the Rocket

NOTE: Safety Glasses are recommended

What to do:

1. Soak one to two paper towels in warm water for a few minutes then squeeze out as much water as possible.
2. Remove the lid from the pop bottle and stuff the paper towel into the entire lid of the pop bottle. If possible, leave for a few hours until mostly dry (these will act as corks to help launch the rocket and should fit like a cork into the mouth of the pop bottle).
3. Lay your coffee filter flat and place a line of baking soda down the middle. Fold the bottom and the top of the filter in towards the middle of the filter and roll the filter up like a burrito.
4. Repeat steps one to three for every time you wish to launch the rocket.
5. You can decorate the pop bottle to look like a rocket ship (it will launch upside down) with construction paper, gluing Lego pieces, etc.
6. Turn the bottle upside down and tape the four pencils as feet onto the bottle so it will stand on its own.

To launch the Rocket...

1. Place the rolled coffee filter into the mouth of the pop bottle.
2. Pour in the vinegar
3. Quickly stuff the cork you have made into the mouth of the pop bottle
4. Turn the rocket upside down and stand far back!

3...2...1...BLAST OFF!!!

Source: [Science Sparks](#)

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