

# JR-SCIENTISTS

# BURPING BAG

**Kids love things that fizz, pop, burp, explode, and erupt. These bursting bags do just that!**

## INSTRUCTIONS

**STEP 1:** Take one square of toilet paper and place a heaped tablespoon of baking soda in the middle.

**STEP 2:** Bring the corners of the toilet paper together and wind up the top to create a simple pouch.

**STEP 3:** Add 2/3 cup of vinegar to your plastic bag.

**STEP 4:** Seal the bag so there is just enough room to slip in the pouch.

**STEP 5:** Give the bag a little shake and toss on the ground.

Watch and see what happens with your exploding bag. Will it pop, burp, explode?

## THE SCIENCE

Even the youngest scientist can learn a little something about the science behind our exploding bags. The chemical reaction between the baking soda and the vinegar creates a gas called carbon dioxide. You can see this in fizzy drinks like our fizzy lemonade.

The carbon dioxide gas then fills up the bag. If there is more gas than the room available in the bag, the bag will burst, pop, or explode. Similar to our baking soda volcano activity. There's no place for the gas and liquid to go but up and/or out.

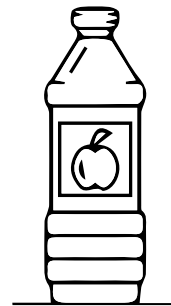
## SUPPLIES:

**Baking Soda**  
**Vinegar**  
**Small sandwich bags**  
**or**  
**Gallon Size Bags**  
**Toilet paper**  
**Safety Goggle**  
**or**  
**Sun Glasses**



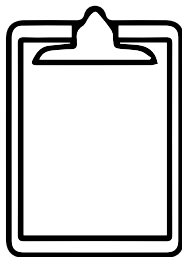
# Burping Bag Observations

Use this worksheet to process and evaluate your work.



What do you think will happen when you mix vinegar and baking soda?

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RECORD

What did you observe? What did you hear?

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Why do you think the bag expands?

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What did you learn about chemical reactions?

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