

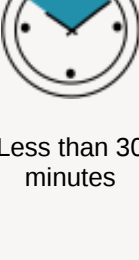
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**Monster Bursting Bag Activity**

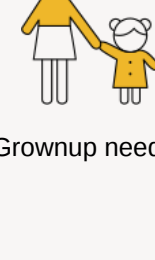
Stem Activities



Ages: 6-8



Less than 30 minutes



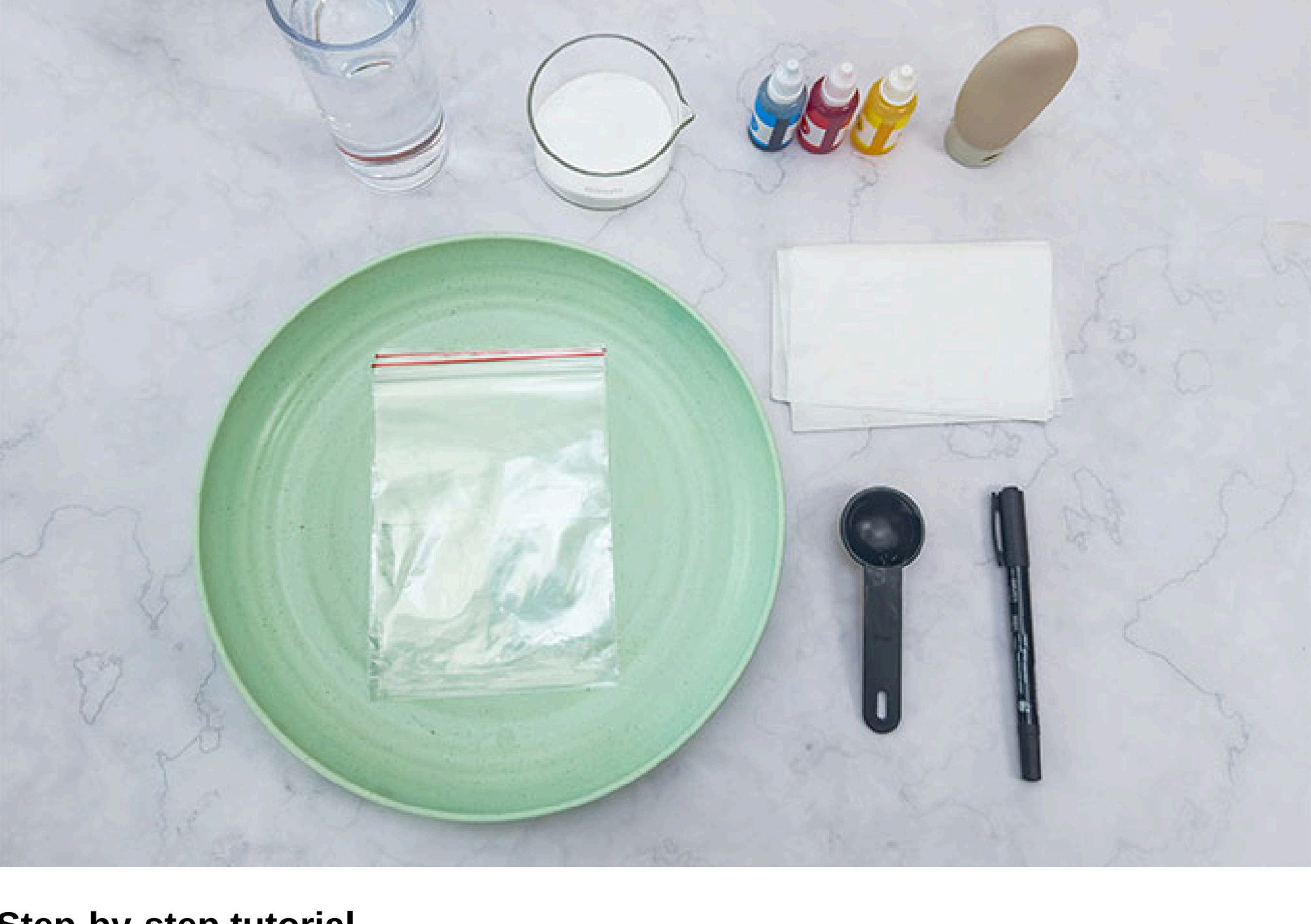
Grownup needed



This is a colourful science experiment full of explosions and surprises. With simple preparations, you can enjoy this chemical feast! Let's create an exciting burst of fun!

## Materials Needed

White vinegar  
Bicarbonate of soda  
Food colouring  
Washing-up liquid  
Tray  
Zip-lock bag  
Paper towels  
Spoon  
Marker pen



## Step-by-step tutorial

### Step 1

Using the marker pen, draw a monster face on the zip-lock bag.



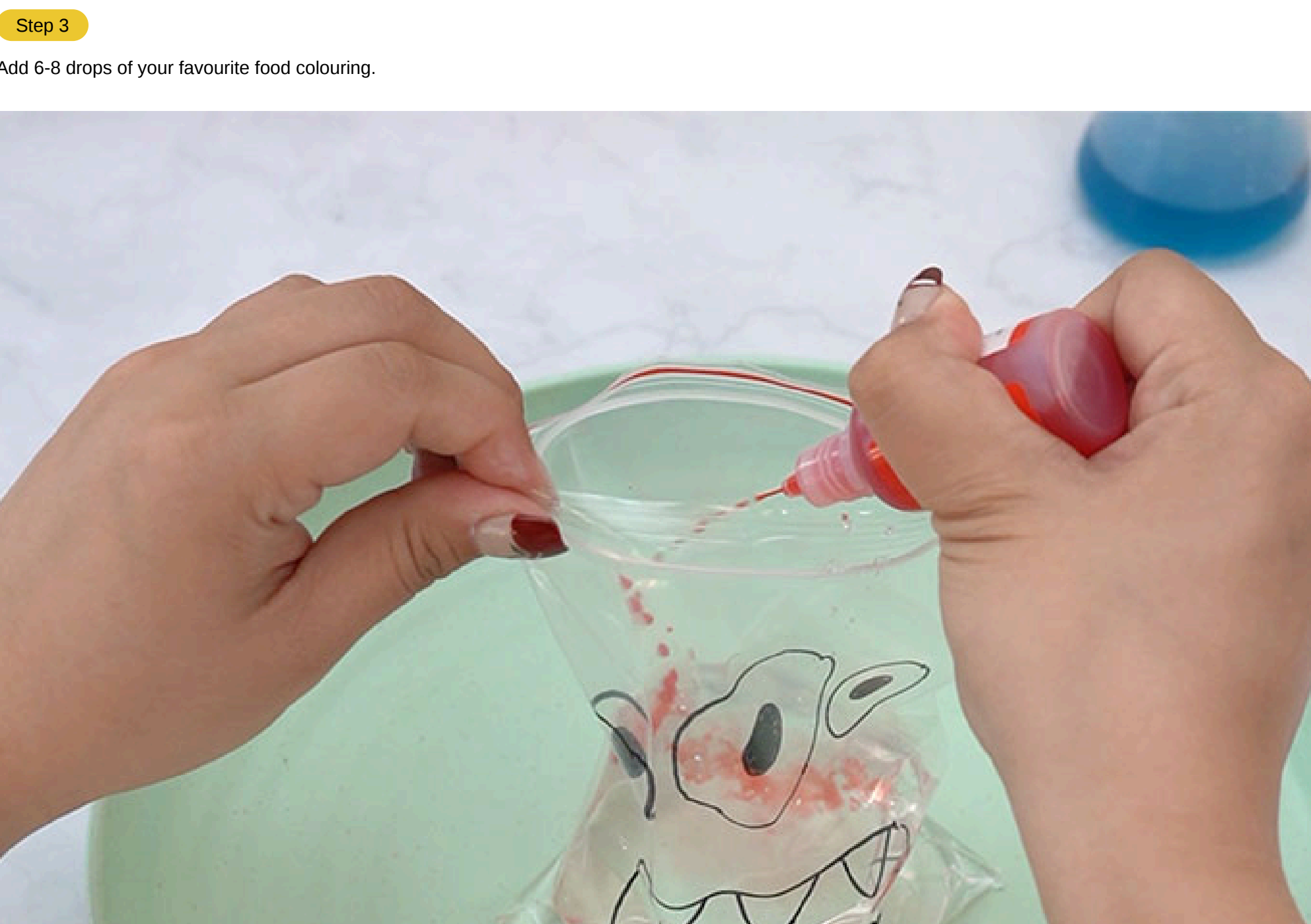
### Step 2

Pour 2 cups of white vinegar into the zip-lock bag.



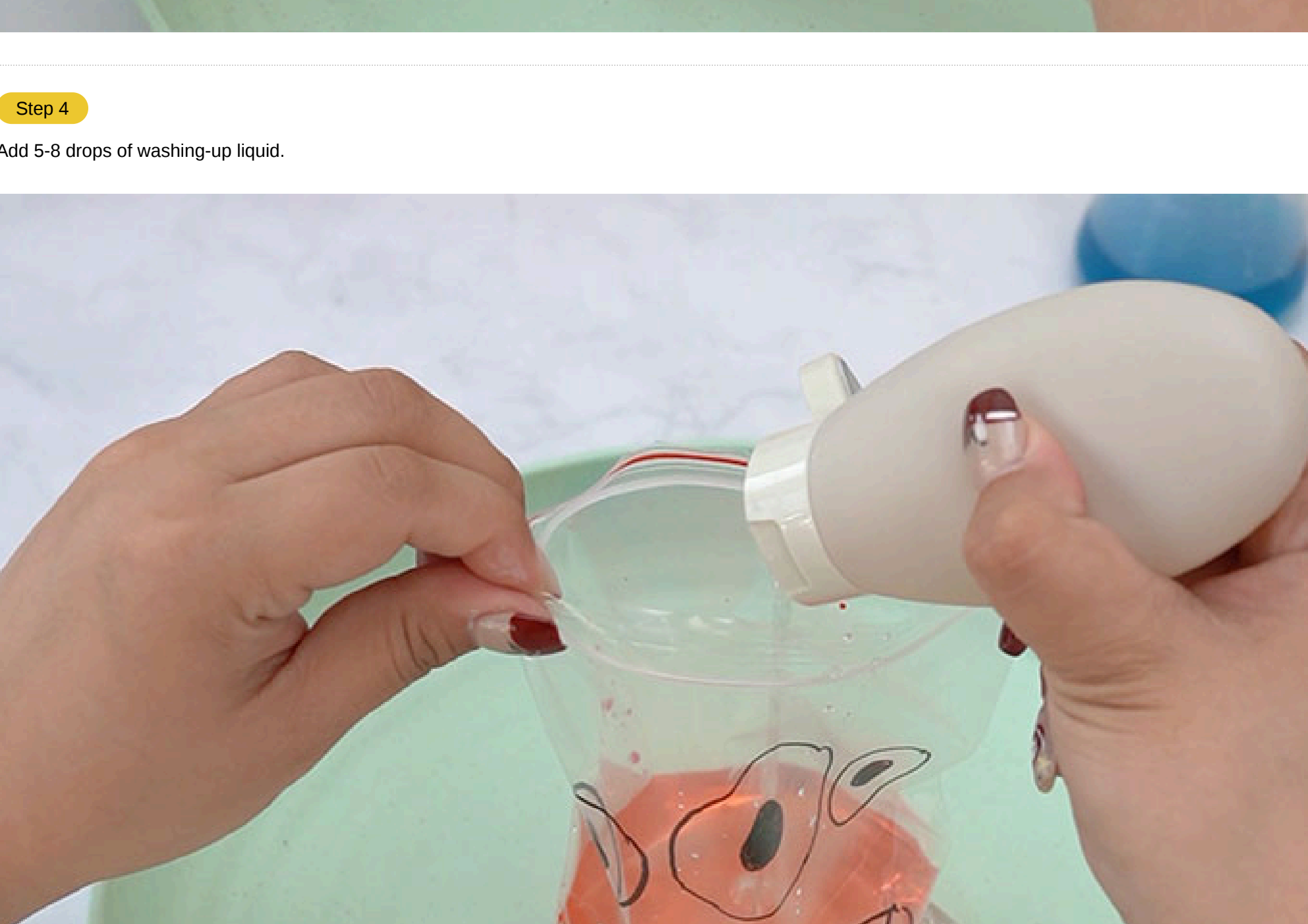
### Step 3

Add 6-8 drops of your favourite food colouring.



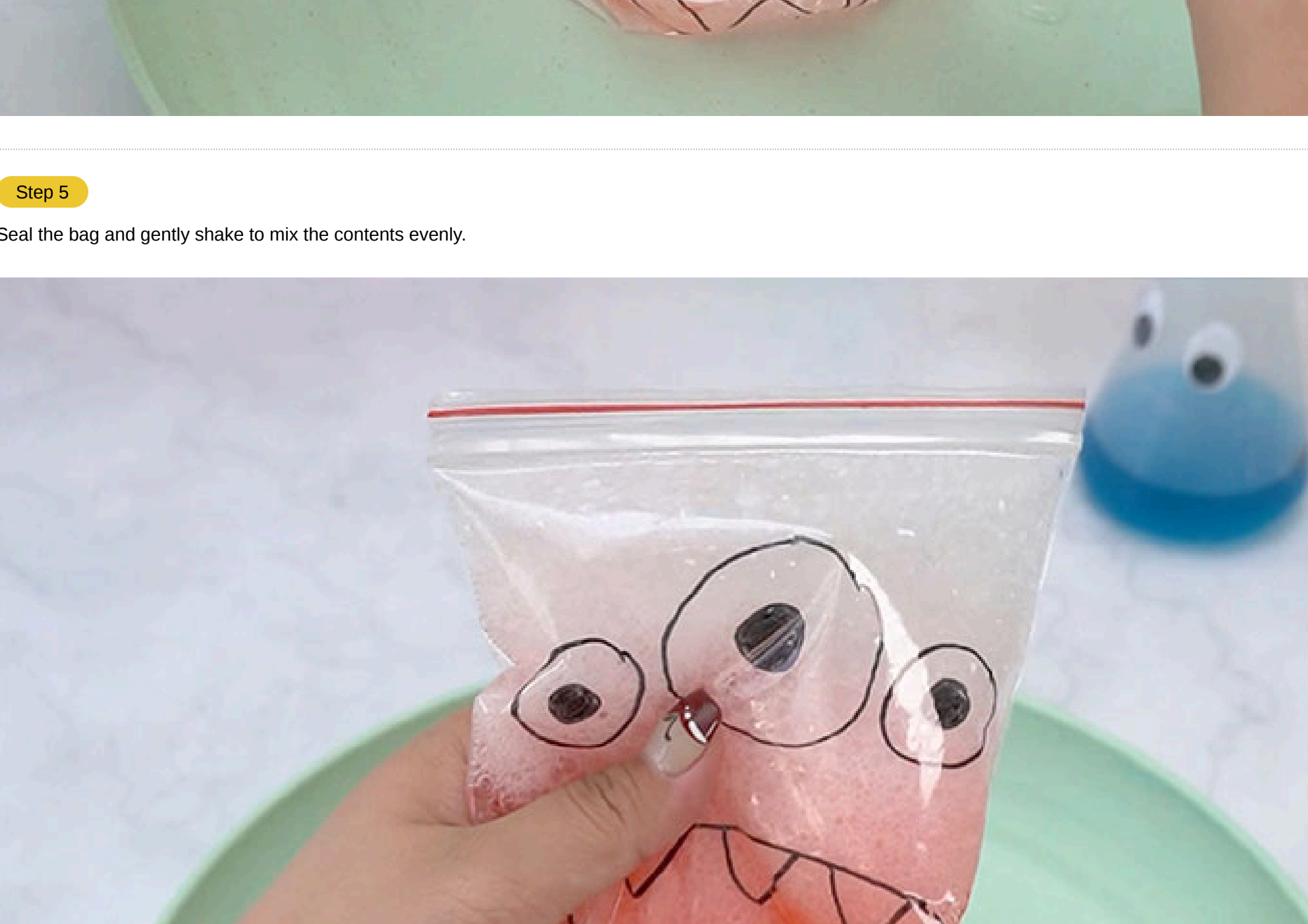
### Step 4

Add 5-8 drops of washing-up liquid.



### Step 5

Seal the bag and gently shake to mix the contents evenly.



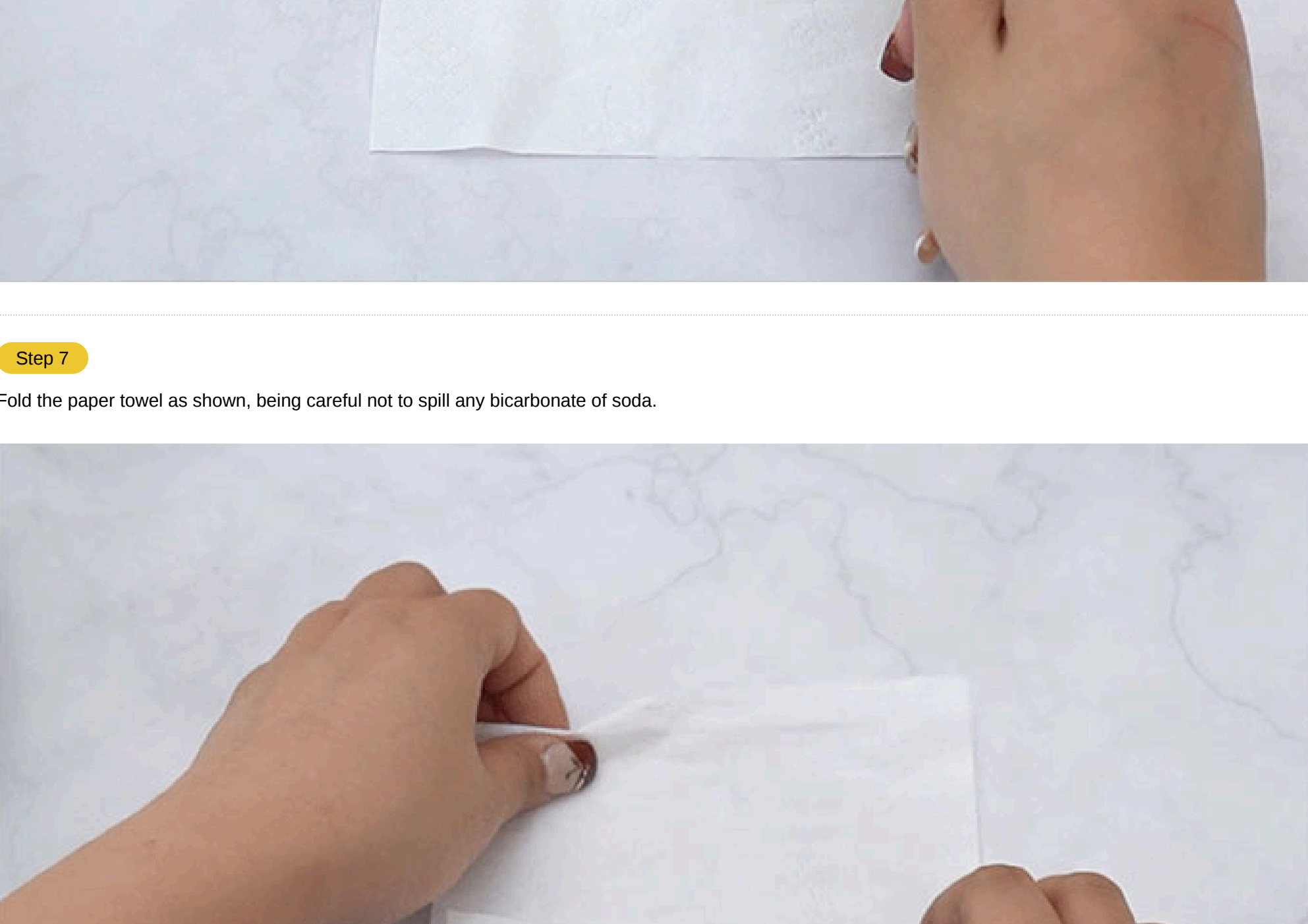
### Step 6

Pour one spoonful of bicarbonate of soda onto a paper towel.



### Step 7

Fold the paper towel as shown, being careful not to spill any bicarbonate of soda.



### Step 8

Place the wrapped bicarbonate of soda into the bag and quickly seal it.



### Step 9

Watch what happens inside the bag and wait patiently for the mixture to react. Keep your distance from the bag to avoid any splashes.



## The Science Behind It:

When bicarbonate of soda and vinegar mix, they create a chemical reaction that produces carbon dioxide gas (the bubbles you see). The washing-up liquid helps create even more foam. Since the bag is sealed, the gas builds up, eventually causing the bag to expand and burst. This is a classic acid-base neutralisation reaction. What other fun experiments could you try with bicarbonate of soda and vinegar?