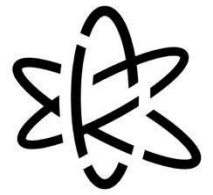




# Third Grade Science

# 3<sup>rd</sup> Grade Science: Activity 2

## What is in a Bubble?



**Directions:** This handout can also accompany a KCS at Home Activity 2 video. Watch the video while doing this activity. You can find the videos at <https://www.knoxschools.org/Page/21816>

**Part 1:** Read the information below and answer questions.

Jeremiah is boiling water in a pot. He notices bubbles forming on the bottom of the pot that rises to the top and he wonders what is in the bubbles. Jeremiah asks his family what they think, and this is what they say:



**Dad:** "They are bubbles of heat."

**Caleb:** "The bubbles are filled with water."

**Grandma:** "The bubbles are empty—there is nothing inside them."

**Mom:** "The bubbles are an invisible form of water."

What family member do you think is correct? \_\_\_\_\_

Write or draw about why you think that is the answer.

## Part 2: Does Gas Take up Space?

The materials you will need: paper or napkin, a cup, sink, or large bin of water that the cup can go under the water.

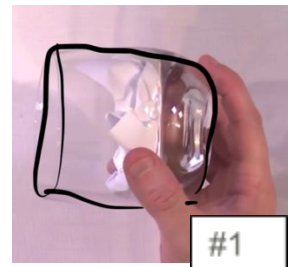
**Before** doing this experiment, predict what you think will happen when the cup with a napkin inside is dunked in the water:

Do you think the paper or napkin will get wet? \_\_\_\_\_

Draw your thoughts on what you think will happen.

### Begin Experiment:

1. Wad up the dry paper or napkin and push it into the bottom of the cup. (picture 1)
2. Flip the cup over and slowly push the cup underwater without tilting the cup. (picture 2)
3. Count to 5 while continuing to hold the cup underwater.
4. Slowly pull the cup back up from under the water.



Draw a model of what happened.

### Part 3: Evidence

After watching the video lesson and doing the experiments, revisit what you think about the story from the beginning.

Who do you think is correct about the bubbles now? \_\_\_\_\_

Why?

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What evidence from the video helps support the claim that gas takes up space?

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