

# Lesson 1: Does Air Take Up Space?



Name: \_\_\_\_\_ Date: \_\_\_\_\_

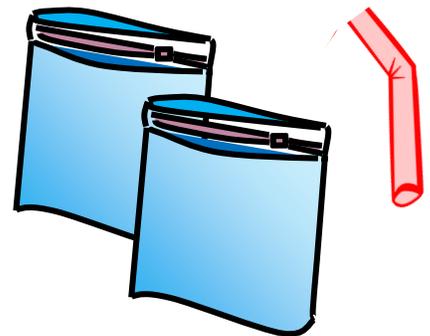
## Introduction

You are surrounded by an invisible ocean of air! In this lesson, you will do a simple experiment to prove if air has volume and takes up space. Gather the materials listed below. Follow the directions to complete the experiment. Remember to record your data and observations on the Data Sheet.

## Materials

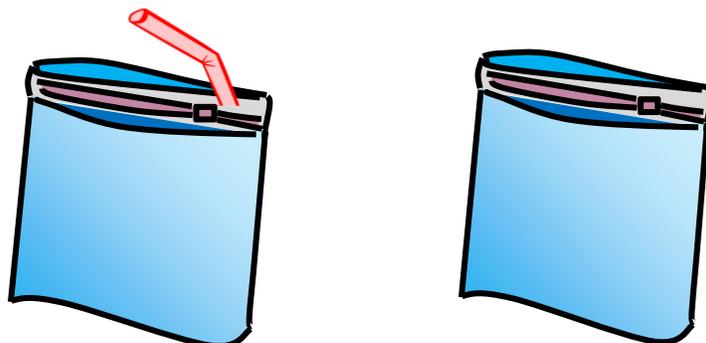
You will need these materials:

- Two re-sealable plastic bags (sandwich size or quart size)
- A drinking straw



## Activity Directions

1. Take a bag and place the straw in one corner of the bag.
2. Zip the bag closed up to the straw.
3. Blow air through the straw until the bag is filled with air.
4. Remove the straw and close the bag completely.
5. Look at the bag you inflated with air and compare it to the bag you did NOT inflate with air. Do they look different? Why or why not?
6. Record your observations on the data sheet.



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## Data Sheet

Use this sheet to record your observations, make a claim about whether air takes up space, and support your claim with evidence from the activity.



<p><b>TEST: What did I do?</b></p> <ol style="list-style-type: none"><li>1. I blew air into a bag with a straw.</li><li>2. I compared the bag I inflated with air to a bag that was <b>not</b> inflated with air.</li></ol>	<p><b>OBSERVATION: What did I see?</b> (Draw a Picture or Write a Description)</p> <table border="1"><tr><td data-bbox="899 764 1154 1199"><p><u>Bag with air</u></p></td><td data-bbox="1154 764 1523 1199"><p><u>Bag without air</u></p></td></tr></table>	<p><u>Bag with air</u></p>	<p><u>Bag without air</u></p>
<p><u>Bag with air</u></p>	<p><u>Bag without air</u></p>		
<p><b>CLAIM: What do I think?</b> (Check one)</p> <p>I claim air takes up space.</p> <p>I claim air does not take up space.</p>	<p><b>EVIDENCE: How do I know my claim is true?</b></p>		

## Conclusion

Return to the course module and watch the Conclusion Video under Step 3.