

MAGIC IN THE AIR

PURPOSE: Children will observe that air takes up space.

Materials:

Book Topics: air, air is all around

Clear glass or plastic cup

Paper towel or sheet of paper

Large (2 quart) bowl. Bucket or dishpan

Water



PROCEDURE:

1. Fill the sink, bucket or bowl with water.
2. Crumple a dry sheet of paper and push it into the bottom of the cup.
3. Predict what will happen to the paper when you invert the cup and put it into the water. Will the paper get wet, or will the paper stay dry? Why?
4. Invert the cup: immerse it completely under the water. Hold it as vertical as possible making sure the crumpled paper stays up in the cup.
5. Remove the cup carefully in the same vertical position and examine the paper.
6. Compare your predictions with the results of the experiment.

HOW IT WORKS: Air takes up space. When the cup is turned upside down and placed into the water, the air that is trapped in the cup keeps the water from entering the cup. Therefore, the paper stays dry.

WRITING PROMPT:



You have just completed an experiment that proves that air takes up space.

Think about what happened when the glass was placed under the water.

Draw a picture of the experiment and explain what happened.

Parent Signature: _____

FAMILY SCIENCE PROJECT

Date: _____

Name: _____

Teacher: _____

Hypothesis (What do you think will happen?)

Date/Observation:

Conclusion: (What you learned or discovered):

*(*You may continue your observation on another sheet. You may want to create a graph to record your data.)*

For the reading portion of Family Science, you may choose to read a book or an article, OR you may use the Internet in order to find some background information concerning this Family Science Project. If you read a book or an article, please include the complete title and author. If instead you looked up the information on the Internet, please include the complete website.

We read the following book, **OR** researched the information on the Internet:

Book Title: _____ Author: _____

Internet-Complete Website _____

Writing Prompt (minimum 3 sentences)
