



Air Movement

How does the air temperature affect movement?

Gather Data

Here is some information to help you make a hypothesis:

- Warm air rises. This creates a high-pressure zone.
- Cool air sinks. This creates a low-pressure zone.

You can find more information about high- and low-pressure zones online or at the library.

Make a Hypothesis

Before you start the experiment, read the instructions. What do you think will happen? Write about or draw a picture of your prediction.

Test with an Experiment

1. Cut a spiral shape from a piece of paper. Tape a string to the top of the spinner.
2. Hold the spinner over a countertop to see how it behaves with no air movement.
3. Hold the spinner over a lamp that has been on for a while to see how it behaves around warm air. Notice which direction it spins.
4. Put 10–20 ice cubes in a bowl and add cold water.
5. Hold your spinner over the bowl of water to detect air movement. If it spins, notice which direction it spins.
6. Draw a picture of the experiment.

Draw a Conclusion

Does warm air move in the same way that cold air moves? Write about or draw a picture of what happened.

More Ideas to Try

- If you make the water hotter or colder, will it affect the movement of the spinner?
- Will the spinner move over a bathtub of warm water?

MATERIALS

- Paper
- Scissors
- String
- Tape
- Lamp
- Ice cubes
- Cold water
- Bowl
- My Home Science Journal pp. 2–3 (or your own science notebook)



My Home Science Journal

Be sure to do this experiment with an adult. Follow the directions carefully.

1 Ask a Question

Write the question you want to answer.

2 Gather Data

What do you already know about this topic? Talk about it.

3 Make a Hypothesis

What do you think will happen? Write or draw.
