

AIR (IN MOTION)

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Subject

Basic Science

Prepared By

[Instructor Name]

Grade Level

2

Overview

This lesson plan covers teaching content for;

- 1. Meaning of Wind.
- 2. Effects and importance of Wind.
- 3. Harmful effects of Air.

Objectives

Students will be able to:

- 1.Define Wind.
- 2.Describe the effects of Wind.
- Tell the importance of wind.
- 4.Identify what causes the wind to blow and how it can change intensity.

Information/Instruction

- 1.Explain to your students that you will be exploring whether air really exists, even if you can't see it.
- 2.Explain that one way we can identify air is by seeing what it can do—
- 3.like when you use it to blow out a candle.

Teacher Guide

Day 1/Lesson 1- 15 Mins

- 1. Have your students draw a spiral shape on a piece of paper and cut it out.
- 2. Help them to poke a hole in the center of the spiral with a thumbtack.
- 3.Ask them to push one end of the thread into the hole, tie it and attach the other end to the center of the clothing hanger.
- 4. Ask them to hold the hanging spiral several inches above a heat source.
- 5. Ask your students to explain what they see. Did the spiral move?
- 6.Explain to them that when warm air moves upward, it pushed the bottom of the spiral and made it spin. This is the same motion that causes wind.
- Warm air rises and air pressure under it reduces and cools air nearby to take its place.
- 8. Wind is the sideways moving of air and is the cause of changing weather patterns.

Guided Practice

Day 2 Lesson 2- 15 mins

- Explain that you can use a milk jug (or any alternative) to blow out a candle, using just a few special modifications.
- Start by helping your students cut the bottom off the jug. Then cut a circle from the strong plastic bag, at least three inches bigger around than the opening of the jug.
- 3.Use the plastic to replace the bottom of the jug, and tape it firmly with the duct tape all around, so that no air can escape.
- 4. Now the fun part: Place the lighted candle in a holder on a table, and hold the jug at least a foot away, with the mouth of the jug pointed toward the candle.
- 5. Holding the jug steady, hit the plastic firmly with an open hand.
- 6.Tell them to watch, the candle should blow out, even though you never touched it or blew on it yourself. Why?
- 7.The jug is full of air. When you banged on the bottom, you shot an air current straight out the jug.

Materials Required

- -Paper
- -Milk or any alternative
- -Duct tape
- -Candle
- -Plastic bags
- -Rubber bands
- -Cloth hanger
- -Thread
- -Scissors
- -Plastic jar or bucket
- -Water
- -Glass cup

Additional Resources

- http://www.myfreshplans.com/2011/03 lesson-plans/
- https://betterlesson.com/lesson/63283 is-wind
- https://www.teachervision.com/all-king weather
- https://study.com/academy/lesson/win lesson-for-kids-facts-causes.html
- https://www.scholastic.com/teachers/liplans/teaching-content/when-wind-bloplesson-plan/

Teacher Guide

Day 3 Lesson 3- 15 mins

- Place a plastic jar or bucket on a table so that everyone will be able to stand around the table and see and reach the container.
- 2. Test plastic bags for holes by filling them with water. (Have extra bags handy as the bags may develop holes as you do the activity.)
- 3. Put air into a plastic bag by blowing into it or waving it through the air.
- 4. Clamp the opening of the bag around the mouth of the container and fasten it tightly by either wrapping string around it two or three times or by putting a rubber band around it.
- 5. Say to students, "Now I will try to push the bag into the container. What do you think will happen?"
- After the class has made some predictions, give everyone a chance to try to push the bag into the container.
- 7. Ask the students to describe what they feel as they push down on the bag.
- 8. Remove the bag and place it inside the container, like a liner. Drape the top of the bag over the lip of the container, just like the lining in a trash can. Tie string tightly around it two or three times or fasten it tightly with a rubber band.
- 9. Say to students, "Now I will try to pull the bag up out of the container. What do you think will happen?" What happens? Can the students explain what happened?

Guided Practice

Day 4/Lesson 4- 15 Mins

- 1. Stuff a Paper Towel in a Glass so that it won't fall out when you turn it upside down.
- 2. Have your students scrunch and stuff the paper towel.
- 3. Fill a bowl with water using a small pitcher to get your students more involved (plus pouring is a great fine motor activity).
- 4. You may drop some liquid watercolor into the water to make it clear to the eye when the air escapes and the water enters the cup.
- 5. Turn the glass upside down, put it in the water. Air takes up space, so the water does not come into the glass.
- 6. Tip the glass a bit and water enter the glass and absorbs into the paper towel.

1.

Teacher Guide	Guided Practice
Assessment Activity	