

Name: _____

Measuring the Wind 1

❄ You can make a simple instrument to measure the speed of the wind.

You will need:

- paper plate, wooden stick (about one foot or 30 cm long), adhesive tape, cotton reel, four paper cups (one has to be a different color from the rest)

Here's what to do:

1. Tape the cups evenly around the edge of the paper plate. The cups should all face the same way.
2. Tape the cotton reel to the bottom of the plate. Push one end of the stick into the center hole in the cotton reel and the other in the ground.

How to use the instrument:

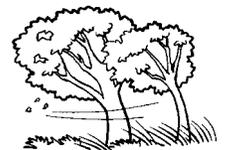
The plates spin around as the cups catch the wind. If you count how many times the different cups go round in a minute, you can record the wind speed. Use this information to record the wind speed at different times every school day for a week.

Day	10 pm	1pm	3pm

Which day had the highest wind speed? _____

What time did the highest wind speed happen? _____

Which day had the lowest wind speed? _____



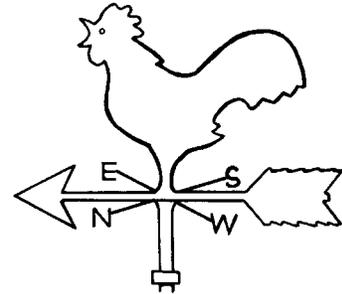
Name: _____

Measuring the Wind 2

❄ You can find out which direction the wind is coming from by making a weather vane.

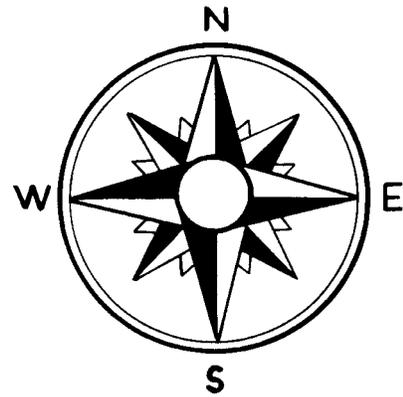
You will need:

- cardboard, knitting needle, pen top adhesive tape, compass, paper



Here's what to do:

1. Cut out a cardboard arrow and tape the top of the pen to the back of the arrow.
2. Put the knitting needle into the pen top and make sure the arrow is able to move freely.
3. Mark the compass points on a piece of square paper.
4. Place the paper on the ground and push the knitting needle through it. (Make sure the paper has been placed so the compass points on the paper are facing the right direction. You may need a compass to help.)



❄ Record the wind direction at different times every school day for a week.

Day	10 pm	1pm	3pm

Name: _____

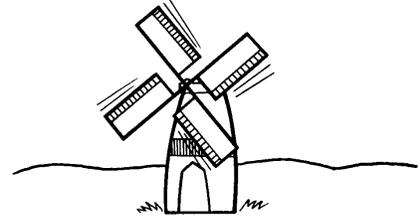
Wind Power

Pollution from power stations, factories, and cars is harming the air that we breathe. Using wind power does not cause pollution.

✿ Make a windmill to show how the wind can be put to work.

You will need:

- paper, scissors, 2 straws, playdough, paper clip, adhesive tape, thread, button



Here's what to do:

1. Cut out a piece of paper about 4 inches (10 cm) square. Cut 2-inch (5 cm) slits from each corner of the square towards the center of the square.
2. Fold every second corner towards the middle and glue them down.
3. When the glue is dry, make a hole in the middle of the windmill. Push a straw through the hole and fasten it with playdough.
4. Tape a paper clip to the end of the second straw so half of the paper clip is secured to the straw and half of it forms a loop. Push the bottom end of the windmill straw through the paper clip loop so the second straw forms a handle.
5. Tape some thread on the windmill straw close to the windmill end of the straw. Tie a button to the end of the thread.
6. Hold the second straw and blow into the windmill.

What happens when you blow into the windmill? _____

Can you think of any machines that are powered by the wind? _____
