

Power of Wind

PBS Resources

Wind Powered Car | Activity | Cyber Chase
bit.ly/3P6WwcN



Blowing in the Wind | Video | Curious George
bit.ly/39PsEI8



Air Cannon | Video | Sesame Street
pbslearningmedia.org/resource/sesame-murray-experiment-air-cannon/murray-experiment-air-cannon-sesame-street/



Extend the Moment

- ❖ Wind is a great source of energy, does no damage to the earth, is powerful enough to move vehicles, and can be harnessed in abundance.
- ❖ Encourage your child to “notice” the wind- when you are outside. See if you can determine the direction it is blowing by using a streamer or string.
- ❖ Point out flags blowing in the breeze.
- ❖ Point out windmills and talk about them, you can do some research here: <https://kids.kiddle.co/Windmill>
- ❖ Talk about how water and wind can change the earth’s surface- you can start with this video: bit.ly/3FzomKy





Wind-Powered Car Activity

Use wind power!

The town of Bottawa loves using wind as power!
Can you create a car that uses the air to move?

A wind-powered car needs:

4 round wheels

(bottle caps, beads, buttons, cardboard circles, etc.)

2 axles

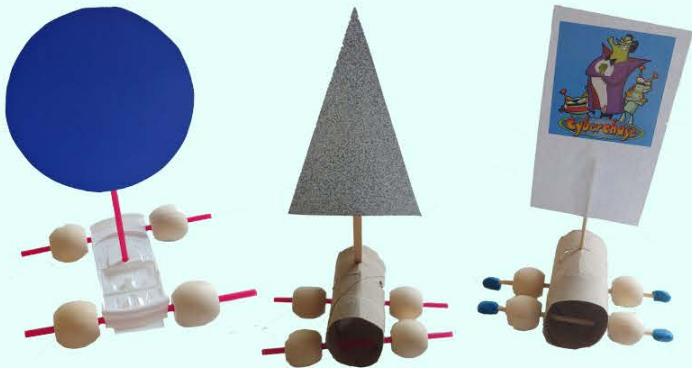
(chopsticks, wooden dowels, straws, etc.)

1 body

(toilet paper tube, paper, cardboard, etc.)

1 sail

(paper towel, tinfoil, paper, paper plate, etc.)



Building Tip: Make sure that the holes for your axles in your car are big enough so that the axles can spin as the wheels move.

As a family, use the steps below in the engineering design process to design a wind-powered car.





How Windy Is It?

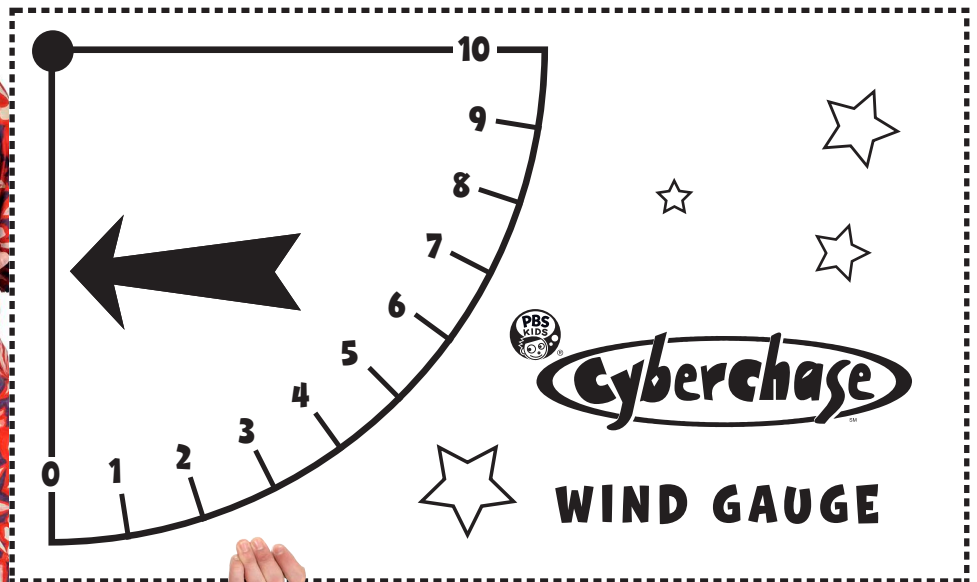
Measure the wind at different spots around town.

Materials

- 3 x 5-inch index card
- 12-inch piece of string
- small paper clip
- glue stick
- hole punch
- scissors

Directions

- 1** Cut out the Wind Gauge below and glue it to an index card.
- 2** Punch a hole through the black dot. Tie the string through the hole.
- 3** Attach a paper clip to the other end of the string.
- 4** Outside, hold the card so the string lines up with “0.” Point the arrow into the wind. What number does the string line up with now? That’s the wind speed!
- 5** Try measuring the wind in different spots. Where’s the fastest wind?



Watch *Cyberchase* on PBS KIDS!

pbskids.org/cyberchase