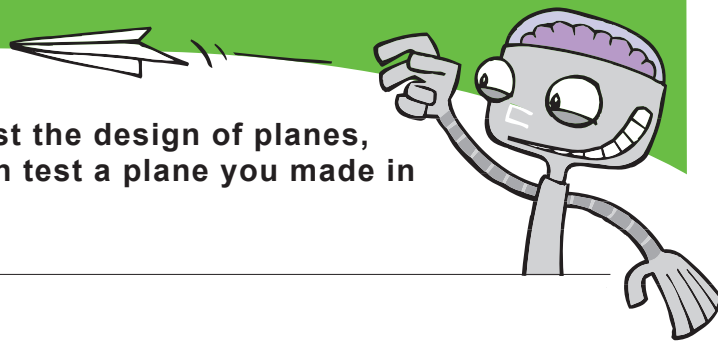
# WIND TUNNEL



**Scientists use enormous wind tunnels to test the design of planes, helicopters, even the Space Shuttle. You can test a plane you made in your own wind tunnel.**

## WHAT YOU'LL NEED

**Get an adult to help you with any electronic equipment like a hair dryer or electric fan.**

- Large paper tube, or heavyweight paper cut into 1.5 m X 30 cm piece (insert feet and inch equivalent?)
- Fan or blow dryer
- Tape
- 30 cm (*  inches?) of string for each model
- Paper airplane or helicopter, and/or other folded paper models

## WHAT TO DO

1 Set up the fan or blow dryer. (With a handheld dryer, you may need two people to test.)
Attach string to each model with tape.
For paper tunnel, roll paper into tube shape and tape edge overlap (see

ACTIVITY CONTINUED ON NEXT PAGE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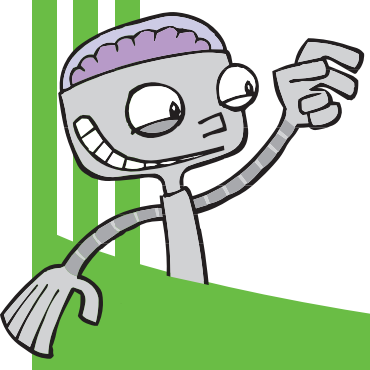
(ACTIVITY CONTINUED)

**2** Hold the tunnel so "wind" from the blower can move through it. Dangle a test object at the opposite end of the tube from the blower. Turn on the "wind."

What happens to your test object? Record your data in the Chart below. **3**

| Test Object | Affect of Wind on Object |
|---|---|
| | |
| | |
| | |
| | |



## DID YOU KNOW?

- In the world's largest wind tunnel, air can travel 30 times the speed of sound!



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