

WIND CAN DO WORK

PURPOSE: To explore how the energy in moving air can do work.

MATERIALS: fan, pinwheel, pencil, bead, and push pin from pinwheel activity; tall foam cup; thread; tape; paperclip

PREDICTION: Read the procedure. Write what you think will happen on a separate piece of paper.

PROCEDURE:

1. Tie one end of a piece of thread to the paperclip. Tape the other end of the thread to the pencil as shown in the diagram.
2. Make two holes in the top of the foam cup and slide the pencil into the holes as shown. Make sure the pencil can spin freely in the holes.
3. Attach the pinwheel to the end of the pencil eraser with the push pin as shown in the diagram.
4. Blow on the pinwheel or use a fan to spin the pinwheel. Observe the movement of the paperclip.

CONCLUSION:

1. Explain what happened in the experiment.

2. How could you use this design in the real world to do work?

