

## Air Pressure

### Activity Objective

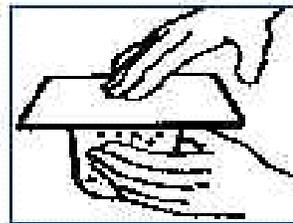
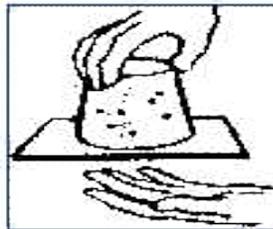
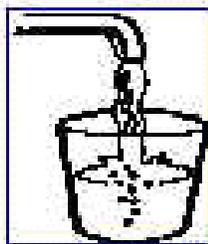
- To show that air has pressure

### Materials

- ✓ Water
- ✓ A glass
- ✓ Pieces of thin, flat cardboard

### Instructions

1. Fill the glass to the top with water.
2. Place the cardboard over the glass.
3. Holding cardboard tightly to the glass, carefully turn the glass upside down.
4. Remove your hand from the cardboard.
5. Hold cardboard in place against the glass.
6. Tilt the glass or hold it sideways and the cardboard still remains in place.



### Observations

The water will leak out if the cardboard is not held tightly when turning the glass over.

The cardboard sticks to the glass as it is turned.

**Questions**

Did the water leak out? If so, why? (The water leaked out because it was not held tight enough next to the cardboard.)

What could you do to keep the cardboard dry longer? (Use thicker cardboard; answers will vary.)

Did the cardboard stick when the glass was turned sideways? Why? (Yes, the pressure of the air next to the cardboard caused it to hold tight.)

**Conclusion**

The air pressure kept the water from falling out of the cardboard-covered glass.