

## **Candle Burning Inside the Graduated Cylinder**

### Instructions

#### Materials:

Large glass tray (Pyrex glass baking dish was used in the video)

Candle

Candle adhesive (Stick-Um brand)

Matches

Water

Blue food color

#### Set Up:

1. Place a dab of the wax from the Stick-Um container to the center of the tray.
2. Place the candle securely on the wax, push down slightly to make sure the candle stays in place.
3. Add food coloring to a container of water.

#### Demo Procedure:

1. Fill the tray  $\frac{1}{2}$  way up with colored water.
2. Light the candle.
3. Lower the graduated cylinder carefully over the burning candle.
4. Observe how the candle continues to burn for a few more seconds as it uses up the oxygen inside the cylinder.
5. Point out how as the pressure drops inside the cylinder the color solution is pushed up into the cylinder by the atmospheric pressure pushing down on the solution outside of the cylinder.