



What you will need:

- 3-4 ounces water
- Plate
- Food coloring
- Candle
- Lighter
- Clear drinking glass
- Safety googles and gloves



Drinking Candle

Overview and Objective

Although you cannot usually see it, air takes up space! When it is heated, it expands and takes up more space than when it is cool – think of a hot air balloon!

In this experiment, we will be seeing atmospheric pressure changes in front of our eyes as we increase the air pressure inside the glass and then watch what happens when the air cools. The air inside and outside the glass wants to be the same and so some interesting things will happen as it levels out - make sure to keep a close watch at the water!

Process:

- 1. Measure 3-4 ounce of water and pour it onto the dish.
- 2. Add a few drops of food coloring.
- 3. Place the candle in the center of the dish and carefully light it.
- Pick up the glass and carefully hold it for a few seconds – upside down – over the lit candle to heat it.
- 5. After the glass it heated up, gently place it down over the candle.



6. Watch what happens to the candle flame and the water in the dish.

What have you found?

What happens to the candle flame when the glass is placed over it? Do you think this would work with a thicker liquid?

> Share with us your drinking candles! www.Facebook.com/abc11scienceclub www.abc11.com/scienceclub