

ojet

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Rising Water Mystery!

Name: _____ Date: _____ Period: _____ NB# _____

- Step 1: Obtain a basket of materials.
- Step 2: Fill the glass beaker with 125 ml of water from the sink.
- Step 3: Place the candle in the center of the white plastic tray.
- Step 4: Pour the water into the tray.
- Step 5: Carefully use a match to light the candle. Allow the candle to burn for about 10 seconds.
- Step 6: Carefully place the glass over the burning candle so that the candle is in the center of the glass opening.
- Step 7: Make careful observations about what happens to the flame, the water and the inside of the glass.
- Step 8: Repeat if necessary to ensure the accuracy of your observations.
- Step 9: Clean and return materials.

Organize your observations in the chart below:

What do you think is happening to:	the gas molecules inside the beaker?	the pressure inside the beaker?	the pressure outside the beaker?	The observable result:
When you first put the beaker over the candle.	Can't spread out. Are trapped.	Pressure increasing	Staying the same	Pushes water out of beaker
While the candle is burning.	Getting warmer, moving faster, spreading out.	Pressure increasing	Staying the same	Pushes water out of beaker
After the candle flame goes out.	molecules cool down, get slower + closer together	Pressure drops. Decreases.	Stays the same, but is now greater than inside.	Creates low pressure and water gets sucked up inside
Other Observations:				

So, what is the explanation for the Water Rising Mystery?