

Name:

Date:

STATES OF MATTER - liquids

Activity 4

Let's dilate a liquid, let's make a thermometer.

A) You need:

➤ A bottle



➤ A straw



➤ Water



➤ A candle



➤ A permanent felt-tip pen



➤ Food colouring



➤ Plasticine



➤ Matches



➤ A fridge



➤ A spoon



B) Instructions and diagram:

1. Don't fill more than two-thirds of the bottle and add a few drops of colouring.
2. Use plasticine to close the top of the bottle and to fix the straw. Don't let the straw touch the bottom.
3. Blow down the straw gently to force some air into the bottle. The water will rise because of the extra air pressure inside.
4. Draw a line on the straw, this will be the room temperature.
5. Put the bottle near the flame of a candle and wait.
6. Draw a line on the straw.
7. Leave the bottle in the fridge and wait.
8. Draw another line on the straw.

Diagram

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C) What happened? _____

D) Why? _____



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- C) - The water moved *up/down* when *I/we heated/cooled* it.
- D) - Because the liquid and the air inside the bottle *expanded/contracted* when *I/we increased/decreased* the temperature.