7Fe/3 Burning time

Does a burning candle use up something in the air?

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P

Apparatus

- **Candle**
- **Heatproof mat**
- **Stopclock**
- **Plasticine**
- **Different size beakers**

Make sure your candle cannot fall over. You may need to stick it to the heatproof mat with a little melted wax.

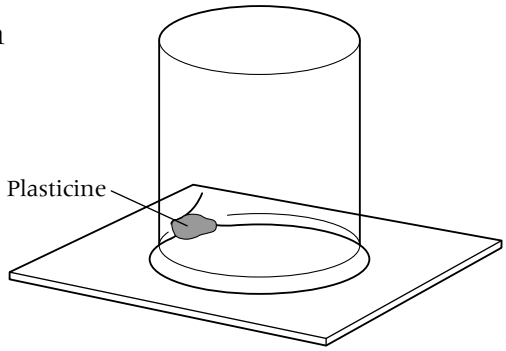
Method

1 If your beakers have pouring spouts, use a little plasticine to fill in the gap so that when you stand it upside down, no air can get in.

2 Stand your candle on the heatproof mat and light it.

3 Carefully put a beaker over the candle and start the stopclock.

4 Watch the candle carefully. Stop timing when it goes out.



Prediction

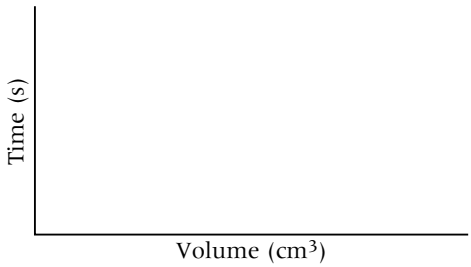
1 Before you carry out your investigation, predict how the size of the beaker will affect the length of time the candle burns. Explain the reasons for your prediction.

Recording your results

2 Design a table to show all the information you will need to record.

Considering your results/conclusions

3 Draw a graph to show your results. You may need to work out the volume of each beaker. Use axes like this:



4 Describe what you have found out.

5 Do your conclusions agree with the prediction you made?

6 Explain your results using scientific ideas.

Evaluation

7 If you had time to do your experiment again, is there anything you could improve?

S **predicting, observing, presenting, considering, evaluating**