10

Name: ..... **Form:** .....

Based on **pages 22 and 23** of *Gases around us*

Investigating a burning candle

Try this…

1. Use water and a measuring cylinder to find the volume of three jars.

2. Arrange the jars in order of size. Call the smallest jar A, the middle jar B and the largest C.

Fill in the first two columns of this table.

Jar	Volume (cm^3)	Burning time (seconds)

3. Make sure the jars are dry before you try the next step.

4. Put jar A over a lighted night light candle in a sand tray and time how long the candle stays alight.

5. When the candle goes out, record how long it burned in the third column of the table.

6. Look at jar B and predict how long you think the candle will burn in it.

Prediction ✎ .....

7. Repeat steps 4 and 5 with jar B.

8. Look at jar C and predict how long you think the candle will burn in it.

Prediction ✎ .....

9. Repeat steps 4 and 5 with jar C.

Looking at the results.

10. Make a graph of the data in the table.

11. What is the link between the burning time of the candle and the size of the jar?

✎ .....