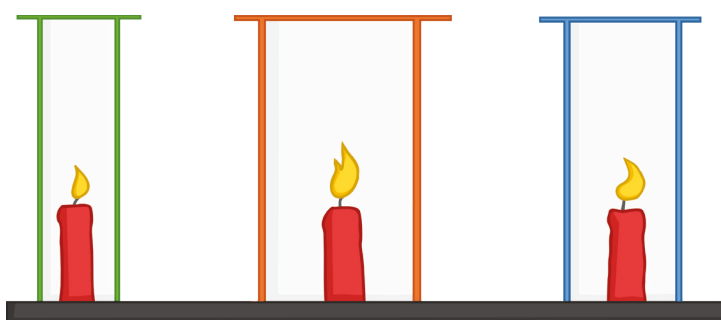


Chemical Reactions

Exam Style Questions 1

1. Ammonium nitrate NH_4NO_3 is used by farmers as a fertilizer.
 - How many elements are there in NH_4NO_3 ?
 - How many atoms are there in NH_4NO_3 ?
2. A group of pupils decided to investigate whether the size of the jar affected how long the candle burnt for. They set up the experiment as shown below, using 3 different sized measuring cylinders.



Results

Jar	Time taken for candle to go out (seconds)
X	12
Y	25
Z	18

- State the independent variable.
- State the dependent variable.
- Name the gas released during the experiment.
- How could you test for the presence of this gas?
- Complete the following equation
fuel + oxygen \rightarrow _____ + _____ + energy
- Give a reason to explain why the candle in jar Y burnt for the longest.

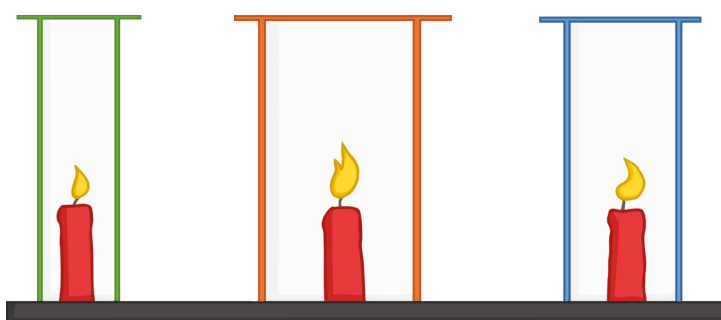
Chemical Reactions

Exam Style Questions 1 Answers

1. Ammonium nitrate NH_4NO_3 is used by farmers as a fertilizer.

- How many elements are there in NH_4NO_3 ? **3**
- How many atoms are there in NH_4NO_3 ? **9**

2. A group of pupils decided to investigate whether the size of the jar affected how long the candle burnt for. They set up the experiment as shown below, using 3 different sized measuring cylinders.



Results

Jar	Time taken for candle to go out (seconds)
X	12
Y	25
Z	18

- State the independent variable. **The size of the jar**
- State the dependent variable. **The time taken for the candle to go out**
- Name the gas released during the experiment. **Carbon dioxide**
- How could you test for the presence of this gas?
 Bubble gas through limewater and the limewater will turn cloudy
- Complete the following equation
 fuel + oxygen \rightarrow **carbon dioxide** + **water** + energy
- Give a reason to explain why the candle in jar Y burnt for the longest. **More oxygen available**