How can we tell a chemical reaction has taken place?

Science

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Combustion

Answer the questions:

- What is the scientific term for burning?
- 2. What are the products in all combustion reactions?
- 3. What is a fuel?
- 4. What are fuels used for?



Different fuels

Write a word equation for the combustion of the following fuels:

- 1. Wax
- 2. Petrol
- 3. Kerosene
- 4. Diesel



Fuel investigation

Match the variable to the definition:

Independent variable

The thing you observe or

measure.

Dependent variable

The things you keep the

same to make sure it is a

fair test.

Control variables

The one thing that you

change.



Fuel investigation

A scientist is investigating three fuels A, B and C. In his investigation he will burn each fuel and see how much the temperature of a beaker of water increases.



Fuel investigation

Complete the table:

Independent variable	
Dependent variable	
Control variables	



Interpreting results

Complete the table:

Fuel	Start temperature /°C	End temperature/ °C	Temperature change /°C
А	25	32	
В	24	35	
С	25	26	



Interpreting results

Answer the questions:

- 1. Which was the best fuel? Use data to explain why.
- 2. Which was the worst fuel? Use data to explain why.
- 3. How do you know that burning fuels is a chemical reaction?
- 4. What were the products of each combustion reaction?

