

- 1 Rearrange the letters of the words in the box to work out the missing word.

A chemical reaction happens when a new _____ is formed.

s c u b a n e t s

- 2 There are four things that can tell us that a chemical reaction has taken place.

- a We could see a change of _____.
- b We could see that a _____ is given off.
- c We can see a _____ forming in a solution.
- d We could see that there is an energy _____.

- 3 Draw lines to match each word with its description.

A chemical reaction

A reaction involving breaking down a compound using heat.

A carbonate

The substances formed during a chemical reaction.

Thermal decomposition

The substances you start with in a chemical reaction.

Reactants

The change that always forms one or more new substances.

Products

A metal compound that contains carbon and oxygen.

- 4 Complete the following word equations for chemical reactions:

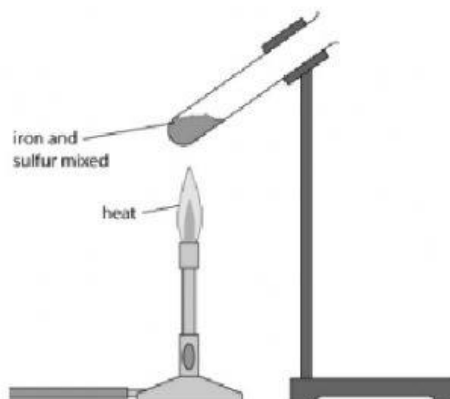
- a iron + sulfur → iron _____
- b mercury oxide → mercury + _____
- c _____ → silver + oxygen

1 Look at the diagram opposite.

a Name the reactants in this reaction?

b Name the product in this reaction?

c What can you use to separate iron from a mixture of iron and sulfur?



d Describe one difference in properties between the compound and the mixture of iron and sulfur?

e Complete the word equation for this change.

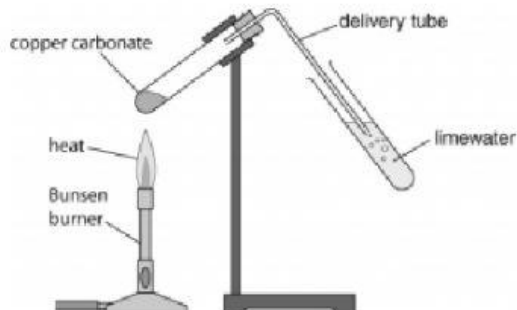
_____ + _____ → iron sulfide

2 Look at the diagram opposite, which shows how copper carbonate can be broken down.

a What is this kind of reaction called?

b Name the products of this reaction?

c Describe two signs that a chemical reaction has occurred?



d Complete the word equation for the change.

copper carbonate → _____ + _____