

- 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

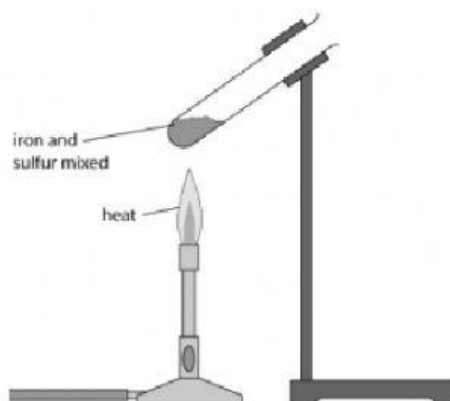
1 Look at the diagram opposite.

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?

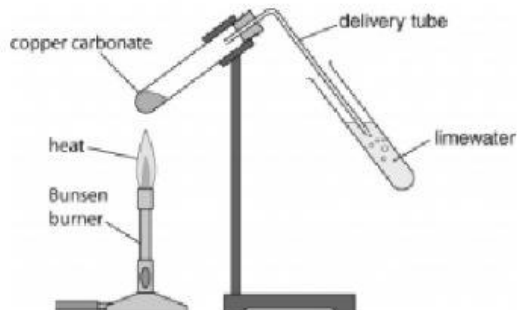
\_\_\_\_\_

c Describe two signs that a chemical reaction has occurred?

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_



d Complete the word equation for the change.

copper carbonate → \_\_\_\_\_ + \_\_\_\_\_