

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  $\rightarrow$  iron \_\_\_\_\_

b mercury oxide  $\rightarrow$  mercury + \_\_\_\_\_

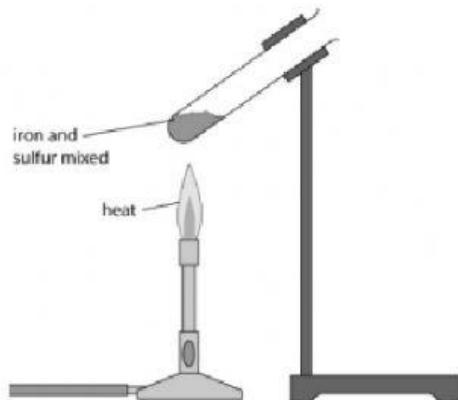
c \_\_\_\_\_  $\rightarrow$  silver + oxygen

1 Look at the diagram opposite.

- Name the reactants in this reaction?
- Name the product in this reaction?

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

\_\_\_\_\_



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

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

e Complete the word equation for this change.



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

- What is this kind of reaction called?

\_\_\_\_\_

- Name the products of this reaction?

\_\_\_\_\_

- Describe two signs that a chemical reaction has occurred?

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

d Complete the word equation for the change.

