

3.9 Mixtures and Compounds

Name:

1. Underline the compounds in the following list.

water iron sulfide air carbon dioxide sea water

2. A _____ is formed when two or more elements combine chemically.

3. Which of the following is not a compound? Underline the correct answer.

magnesium oxide iron sulfide carbon dioxide sea water

4. What elements is water made from? _____ and _____

5. Write down the chemical symbol for water. _____

6. Tick which of the following statements are true.

Compounds consist of two or more substances.

Compounds are difficult to separate.

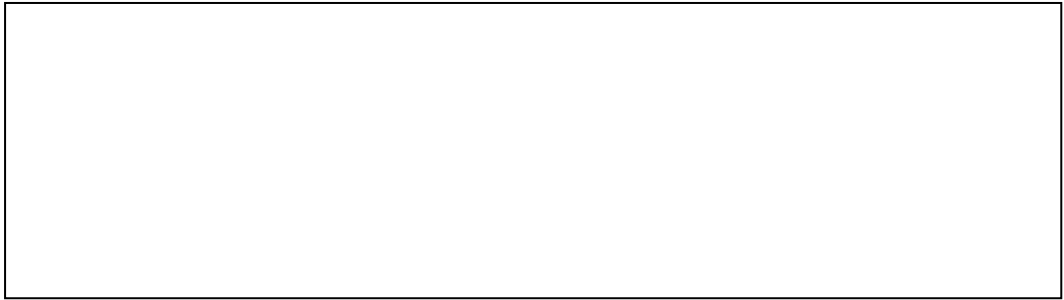
The elements in a compound have a fixed ratio.

The properties of compounds are the same as the properties of the elements that make it up.

7. Using the following compounds: *magnesium oxide, iron sulfide, carbon dioxide and water*, complete the table to outline their properties and the properties of the elements that make it up.

| Compound | Element | Element |
|------------------------|--------------------------------|---------------------------------|
| water | An explosive gas | |
| Can put out fires | carbon A black solid | oxygen |
| magnesium oxide | | Needed for burning |
| | iron | sulfur A yellow solid |

8. Using a diagram to show your idea, design an experiment to measure the amount of salt in sea water.



(a) List what you need:

(b) What measurements will you make?

(c) How accurate do you think your method will be?
