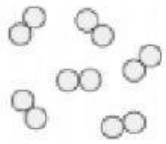
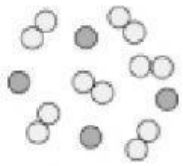
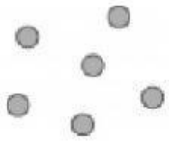
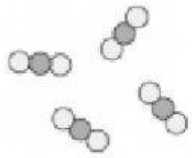
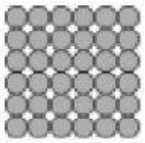
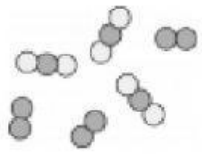
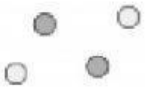
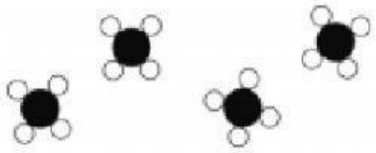
1 For each diagram choose one of the following terms that best describes the model shown.

element	compound	mixture

LIVEWORKSHEETS

2 Tick *one* of the boxes in each row to say what the substance is like.

Substance	Description	Element	Compound	Mixture
Air	Is made of atoms and molecules of different substances, which are not joined together.	☐	☐	☐
Argon	Is made of atoms that are not joined to one another.	☐	☐	☐
Carbon dioxide	Is made of molecules, each with two oxygen atoms and one carbon atom.	☐	☐	☐
Oxygen	Is made of molecules, each with two oxygen atoms.	☐	☐	☐

3 Tick the box to show whether each of these sentences is true or false.

	True	False
All matter is made up of atoms.	☐	☐
Elements can be split up into simpler substances.	☐	☐
There are millions of elements.	☐	☐
Each element is made of the same kind of atoms.	☐	☐

Find out the symbols for the following elements

a aluminium _____ **b** oxygen _____

c iron _____ **d** calcium _____

4 Draw lines to match up the element's description to their symbols.

The most common element in the Earth's crust	**C**
A metal element known about for thousands of years	**N**
The most common element in air	**O**
The element in diamonds	**Au**

LIVEWORKSHEETS

1 What happens in all chemical changes?

A A gas is produced.

B Heat energy is given out.

C Elements change into a compound.

D One or more new substances are formed.

2 A compound contains:

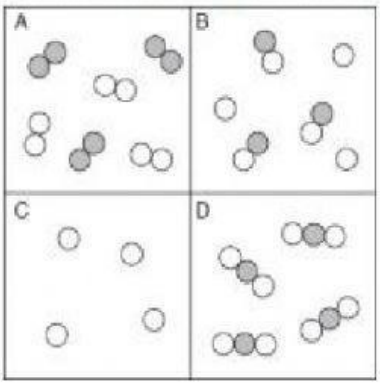
A only one type of atom.

B only one element.

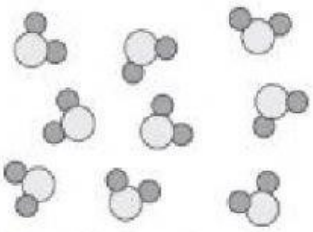
C only two elements joined together.

D at least two elements joined together.

3 Which of the following particle diagrams show molecules of a mixture of elements?



4



The particle diagram above shows:

A an element.

B a compound.

C a mixture of elements.

D a mixture of compounds.

1 Which of the following lists contains only elements?

A air, iron, iodine, magnesium

B zinc, gold, aluminium, oxygen

C nitrogen, copper, mercury, water

D chlorine, argon, sodium, limestone

2 The correct way to write the chemical symbol for the element calcium is:

A ca

B CA

C Ca

D cA

3 Which of these elements is used to build bridges?

A iron

B gold

C oxygen

D carbon

4 We need to recycle some of our metals more because recycled metals:

A have better properties.

B do not corrode as easily.

C produce more carbon dioxide.

D save our limited natural resources.

LIVEWORKSHEETS