



# Elements, Mixtures and Compounds



A. Link each particle or substance with the correct diagram and description. The first has been completed for you.

Particle/substance		Diagram		Description
An atom	•		•	Two or more elements chemically combined
A molecule	•		•	A charged particle
An ion	•		•	A single particle (no charge)
An element	•		•	A collection of atoms or molecules of the same kind
A compound	•		•	2 or more atoms chemically joined together
A mixture	•		•	Different elements or compounds mixed together

B. Study the diagrams, and decide which one each statement below is describing.

a 	b 	c 	d 
e 	f 	g 	h 

1. Atoms of a single element \_\_\_\_
2. Molecules of a single element \_\_\_\_
3. A mixture of 2 elements, both of which are made of atoms \_\_\_\_
4. A mixture of 2 elements, both of which are made of molecules \_\_\_\_
5. A mixture of 2 elements, one of which is made of atoms, the other molecules \_\_\_\_
6. A pure compound made of molecules \_\_\_\_
7. A pure compound made of ions \_\_\_\_
8. A mixture of 2 compounds \_\_\_\_



# Elements, Mixtures and Compounds - Answers



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Particle/substance	Diagram	Description
An atom		Two or more elements chemically combined
A molecule		A charged particle
An ion		A single particle (no charge)
An element		A collection of atoms or molecules of the same kind
A compound		2 or more atoms chemically joined together
A mixture		Different elements or compounds mixed together

B. Study the diagrams and decide which one each statement below is describing.

a 	b 	c 	d 
e 	f 	g 	h 

1. Atoms of a single element = *h*
2. Molecules of a single element = *e*
3. A mixture of 2 elements, both of which are made of atoms = *c*
4. A mixture of 2 elements, both of which are made of molecules = *b*
5. A mixture of 2 elements, one of which is made of atoms, the other molecules = *f*
6. A pure compound made of molecules = *a*
7. A pure compound made of ions = *g*
8. A mixture of 2 compounds = *d*