



Task 1

Join lines from the key terms to their definitions and then on to observation you would make during a chemical reaction.

made up of two or more

Flement elements strongly joined change colour when heated

together

Mixture contain only one type of atom separated easily

made up of two or more Compound has a fixed melting point

elements not joined together

Task 2

Chemistry uses its own language, especially with prefixes and suffixes.

Prefixes can be added to compound names to provide information about the composition of the compound. Fill in the meanings of the prefixes in the table below.

Prefix	Meaning
Mono-	
Di-	
Tri-	

The other way chemistry uses its own language is with symbols.

Match the compounds to their symbols.

hydroxide CO_3

nitrate SO_4

sulfate NO_3

carbonate OH





Task 3

1	Write down	the nar	nes of the	e chemicals	s represented	by the	e following	symbols.
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H
O
N
C
Fe
Zn
Cu
S
AI
I
Br
CI
Na
K

Mg

2 Using Question 1 to help you, complete the proportions of each element in these common compounds.

Compound name	Chemical formula	Relative number of atoms of each element
water	H ₂ O	2 hydrogens, 1 oxygen
sulfur dioxide		
sodium hydroxide		
calcium carbonate		





Task 4

Solid gold	Oxygen molecules	Carbon dioxide	A mixture				
<u> </u>							
Draw particle diagrams below to show each substance.							
or							
particles that have m	ore than one atom joir	ned together. They car	n be				
Elements are made u	ip of one type of		are				
Fill in the gaps to complete the sentences using the following key words: elements, compounds, atom, molecules.							

Task 5

			Н														Не
Li	Ве											В	С	N	0	F	Ne
Na	Mg											ΑI	Si	Р	S	CI	Ar
K	Ca	Sc	Ti	٧	Cr	Mn	Fe	Со	Ni	Cu	Zn	Ga	Ge	As	Se	Br	Kr
Rb	Sr	Υ	Zr	Nb	Мо	Tc	Ru	Rh	Pd	Ag	Cd	In	Sn	Sb	Те	_	Xe
Cs	Ва	La	Hf	Ta	W	Re	Os	lr	Pt	Au	Hg	TI	Pb	Bi	Po	At	Rn
Fr	Ra	Ac															



• groups

water.



Label the Periodic Table with the labels below:

periodsmetalsnon-metalsGroup 0Group 1Group 7						
Match the group numbers to	the descriptions of the elements in the group.					
Group 0	Non-metals called halogens.					
Group 1	Unreactive gases called noble gases.					
Group 7	Reactive metals called alkali metals.					
Task 6						
1 Fill in the gaps to describe	e the reactions of the Group 1 elements and Group 7 elements.					
Group 1 elements react w	ith gas and an					
solution.						
Group 7 elements from the top of the group elements from lower in the						
group from their compour	nds.					
2 Complete the sentences b	elow by circling the correct term.					
As you go down Group 1 tincreases/decreases.	the metals get more/less reactive and their melting point					
As you go down Group 7 the halogens get more/less reactive and their melting point increases/decreases .						

3 Use your answers to Questions 1 and 2 to describe how caesium (Cs) will react with