# Reactivity Lesson 3 - Chemical Formulae

Chemistry - Key Stage 3

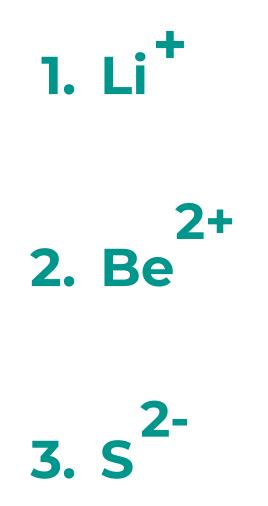
Miss Fenner



- Lithium is in group 1 of the periodic table.
  State the charge of a lithium ion.
- 2. Beryllium is in group 2 of the periodic table. State the charge of a beryllium ion.
- 3. Sulfur is in group 6 of the periodic table. State the charge of a sulfur ion.

# ole.

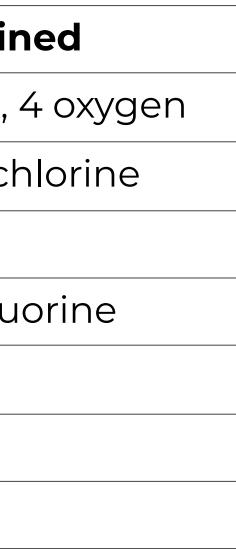
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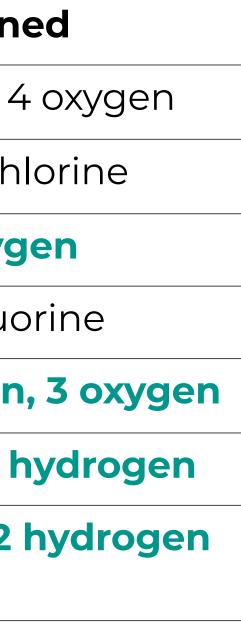
Copy and complete this table. The first compound has been done for you.

Formula	Atoms contair
H <sub>2</sub> SO <sub>4</sub>	2 hydrogen, 1 sulfur,
	1 magnesium, 2 cł
Na <sub>2</sub> O	
	1 potassium, 1 flu
MgCO <sub>3</sub>	
LiOH	
Ca(OH) <sub>2</sub>	
	H <sub>2</sub> SO <sub>4</sub> Na <sub>2</sub> O MgCO <sub>3</sub> LiOH





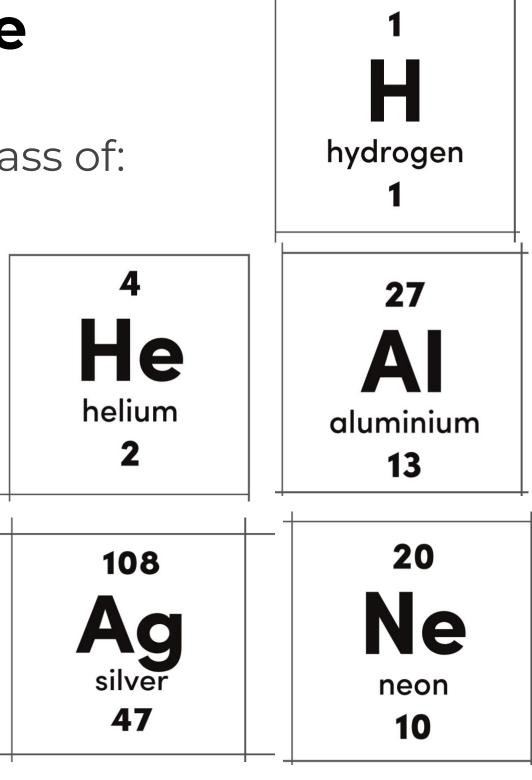
		1
Compound name	Formula	Atoms contain
Sulfuric acid	H <sub>2</sub> SO <sub>4</sub>	2 hydrogen, 1 sulfur, 4
Magnesium chloride	MgCl <sub>2</sub>	1 magnesium, 2 ch
Sodium oxide	Na <sub>2</sub> O	2 sodium, oxyg
Potassium fluoride	KF	1 potassium, 1 fluc
Magnesium carbonate	MgCO <sub>3</sub>	1 magnesium, 1 carbon
Lithium hydroxide	LiOH	1 lithium, 1 oxygen, 1 k
Calcium hydroxide	Ca(OH) <sub>2</sub>	1 calcium, 2 oxygen, 2





What is the relative atomic mass of:

- 1. Hydrogen?
- 2. Aluminium?
- 3. Neon?
- 4. Helium?
- 5. Silver?



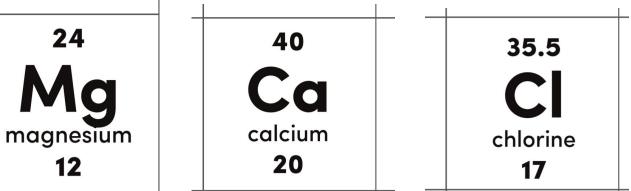
- 1. Ar(H) = 1
- 2. Ar(AI) = 27
- 3. Ar(Ne) = 20
- 4. Ar(He) = 4
- 5. Ar(Ag) = 108



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14	23	1	16	12		
N	Na	H	Ο	C		
nitrogen <b>7</b>	sodium 11	hydrogen 1	oxygen <b>8</b>	carbon 6		r
		_  +	+ +	+		

Substance	Formula	Formula Mass
Ammonia	NH <sub>3</sub>	
Sodium oxide	Na <sub>2</sub> O	
Sodium Chloride	NaCl	
Calcium carbonate	CaCO <sub>3</sub>	
Magnesium hydroxide	Mg(OH) <sub>2</sub>	

#### Copy and complete this table.







Substance	Formula	Formula Ma
Ammonia	NH <sub>3</sub>	14 + (3x1) = 1'
Sodium oxide	Na <sub>2</sub> O	(2x23) + 16 = 6
Sodium Chloride	NaCl	23 + 35.5 = 5
Calcium carbonate	CaCO <sub>3</sub>	40+12 + (16x3) =
Magnesium hydroxide	Mg(OH) <sub>2</sub>	24+2(16+1) =



