

6.1 Classification of Elements

1. Match the following word with the sentences below

Molecule	Compound	Atom	Electron	Molecule	Ion	Element
Proton	Nucleus	Atom	Nucleus			

All matter is made up of small discrete particles

- There are three types of particles which make up matter : _____, _____ and _____.
- An _____ is the smallest particle of an element and cannot be divided or destroy into anything smaller.
- A _____ is a neutral particle consisting of two or more atoms chemically bonded.
- An atom is made up of **three types of subatomic particles** which is _____, _____ and _____.
- Proton and neutrons from the _____ in the centre of an atom, while electron move in the shell around the nucleus with very high speed.
- An _____ is a simplest form of substance that cannot be broken down into simpler substance by any physical or chemical method.
- A _____ is a substance made up of two or more different elements chemically joined together in a fixed ratio.

2. Complete the table of properties of subatomic particles in an atom.

Subatomic particle		Symbol	Relative Charge	Relative mass
Inside the nucleus	Proton	<i>P</i>	+1	1
Outside the nucleus				

3. Put the correct answer in the space provided.

The image shows a periodic table with several interactive elements:

- A box with a dropdown arrow is positioned above the first column (Group 1), with an arrow pointing to the element Hydrogen (H).
- A box with a dropdown arrow is positioned above the first row (Period 1), with an arrow pointing to the element Hydrogen (H).
- A box with a dropdown arrow is positioned above the element Helium (He) in the top right corner.
- A box with a dropdown arrow is positioned above the element Hydrogen (H) in the center of the table.

The periodic table includes the following elements:

1 H																	2 He						
3 Li	4 Be																	5 B	6 C	7 N	8 O	9 F	10 Ne
11 Na	12 Mg																	13 Al	14 Si	15 P	16 S	17 Cl	18 Ar
19 K	20 Ca	21 Sc	22 Ti	23 V	24 Cr	25 Mn	26 Fe	27 Co	28 Ni	29 Cu	30 Zn	31 Ga	32 Ge	33 As	34 Se	35 Br	36 Kr						
37 Rb	38 Sr	39 Y	40 Zr	41 Nb	42 Mo	43 Tc	44 Ru	45 Rh	46 Pd	47 Ag	48 Cd	49 In	50 Sn	51 Sb	52 Te	53 I	54 Xe						
55 Cs	56 Ba	57-71 Lanthanoids	72 Hf	73 Ta	74 W	75 Re	76 Os	77 Ir	78 Pt	79 Au	80 Hg	81 Tl	82 Pb	83 Bi	84 Po	85 At	86 Rn						
87 Fr	88 Ra	89-103 Actinoids	104 Rf	105 Db	106 Sg	107 Bh	108 Hs	109 Mt	110 Ds	111 Rg	112 Cn	113 Nh	114 Fl	115 Mc	116 Lv	117 Ts	118 Og						
		72 La	73 Ce	74 Pr	75 Nd	76 Pm	77 Sm	78 Eu	79 Gd	80 Tb	81 Dy	82 Ho	83 Er	84 Tm	85 Yb	86 Lu							
		90 Ac	91 Th	92 Pa	93 U	94 Np	95 Pu	96 Am	97 Cm	98 Bk	99 Cf	100 Es	101 Fm	102 Md	103 No	104 Lr							

Finish!!