6.1 Classification of Elements

1. Match the following words with the sentences below.

molecule	compound	Atom	electron	Molecule
ion	Element	proton	nucleus	Atom	neutron

All matter is made up of small discrete particles.

a) There are **three types of particles** which make up matter: ……..,

…….. and ……..

b) An …… is the smallest particle of an element and cannot

be divided or destroy into anything smaller.

c) A …… is a neutral particle consisting of two or more

atoms chemically bonded.

d) An atom is made up of **three types of subatomic** particles which is

……. , …….. , and ……..

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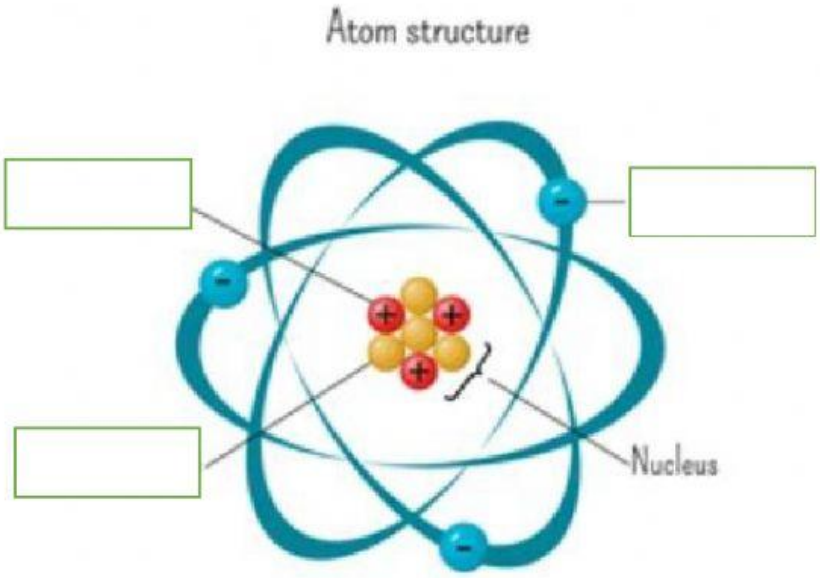
e) Protons and neutrons from the …….. in the centre of an atom, while electron move in the shell around the nucleus with very high speed.

f) An …… is a simplest form of substance that cannot be broken down into simpler substance by any physical or chemical method.

g) A …….. is a substance made up of two or more different elements chemically joined together in a fixed ratio.

2. The diagram below shows an atomic structure. Identify the subatomic particles inside the atom.



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

Subatomic particle		Symbol	Relative Charge	Relative mass
Inside the nucleus	Proton	*P*	+1	1
Outside the nucleus				

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