

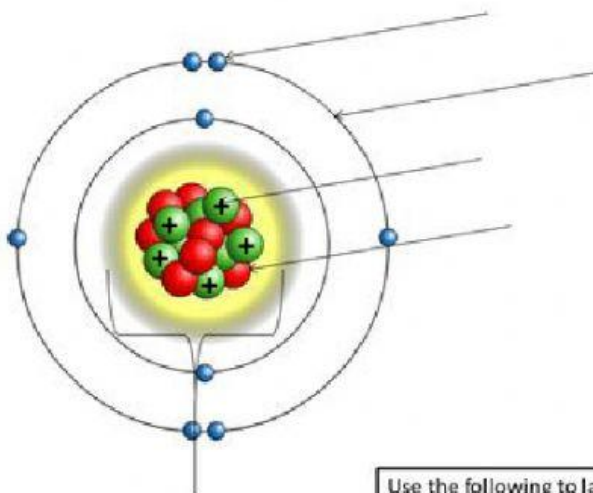
Name: _____

Form: _____

Date: _____

INTEGRATED SCIENCE
ELEMENTS, MIXTURES & COMPOUNDS

1. Label the components of the atom below. Drag the labels from the word bank.



Use the following to label the atom:

Nucleus	Proton	Neutron	Shell	Electron
---------	--------	---------	-------	----------

(5 marks)

2. Select whether the statement is true or false.

- a. Electrons are negatively charged _____
- b. Protons orbit the nucleus of the atom _____
- c. Protons and electrons are attracted to each other _____
- d. Atoms contain equal numbers of protons and electrons _____
- e. Neutrons can be either positively or negatively charged _____

(5 marks)

3. Match the element to its chemical symbol. (Drag to draw a line between the two)

Oxygen

Na

Sodium

Ag

Carbon

Fe

Aluminium

Al

Iron

O

Silver

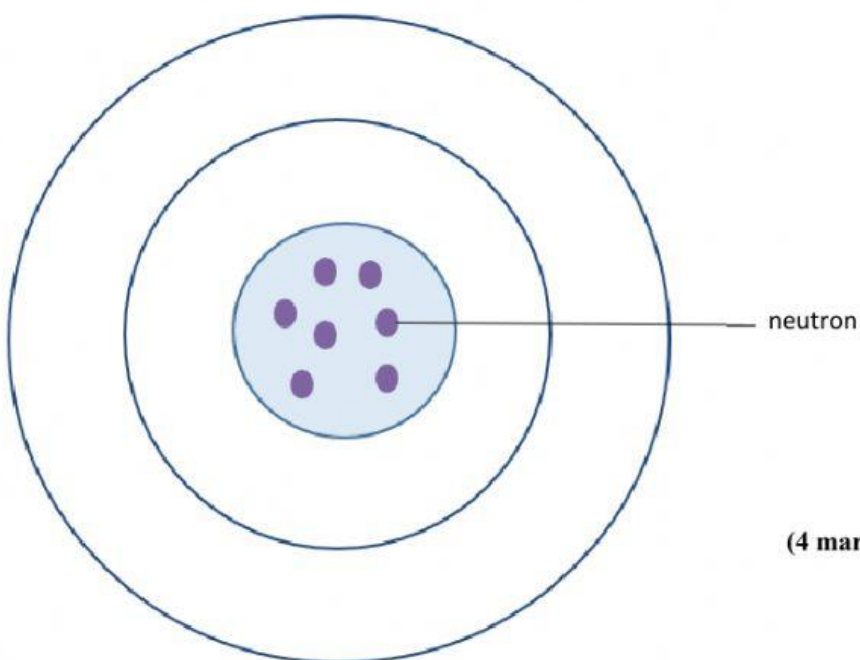
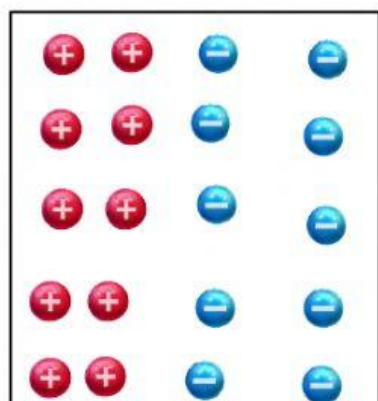
C

(6 marks)

4. If an atom has equal numbers of protons, neutrons and electrons, complete the diagram below, which has seven (7) neutrons. Choose protons and electrons from the box.

 = proton

 = electron



(4 marks)

Atomic and Mass Numbers

Element	Atomic number	Mass number	Number of protons	Number of electrons	Number of neutrons
Sodium (Na)					
Beryllium (Be)					
Carbon (C)					
Lithium (Li)					
Oxygen (O)					
Sulfur (S)					
Cobalt (Co)					
Iron (Fe)					
Nitrogen (N)					
Sodium (Na)					
Rubidium (Rb)					
Silicon (Si)					
Aluminium (Al)					
Phosphorus (P)					
Nickel (Ni)					
Copper (Cu)					
Zinc (Zn)					
Yttrium (Y)					
Boron (B)					