

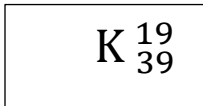


WEEKLY HOME STUDY PACKAGE - WEEK 1 (05/07/21 – 09/07/21)

Subject	BASIC SCIENCE	Year/Level	10
Strand	2 - Matter		
Sub-strand	2.1 – Investigating Matter		
Content Learning Outcome	Investigate the structure of an atom and explain the properties of common elements in relation to their position on the periodic table.		

ACTIVITY SOLUTIONS

1. Study the element Potassium and answer the questions.



i) What is the atomic number?

19

(1 mark)

ii) What is the mass number?

39

(1 mark)

iii) How many protons are in potassium atom?

19

(1 mark)

i) How many electrons are in potassium atom?

19

(1 mark)

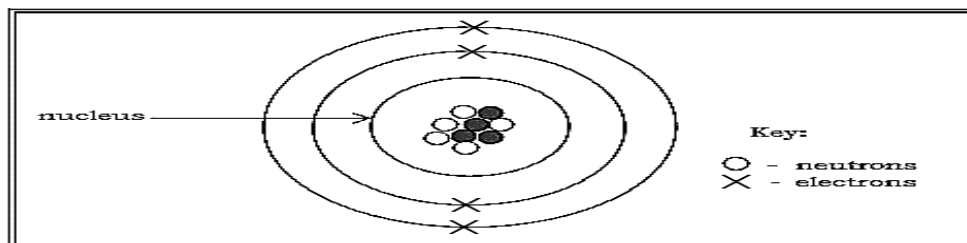
ii) How many neutrons are in potassium atom?

39 – 19

20

(2 marks)

2. The diagram given below shows the structure of a single Beryllium atom. Study the diagram below and answer the questions that follow.



(i) Write the mass number of the Beryllium atom.

(1 mark)

(ii) Write the number of protons for the above element (1 mark)

4

(iii) What conclusion can be made about the number of protons and electrons in an atom? (1 mark)

The total number of protons is same as the total number of electrons.

THE END

2.