



WEEKLY HOME STUDY PACKAGE – WEEK 2 (12/07/21 – 16/07/21)

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.		

LESSON NOTES/ACTIVITY:

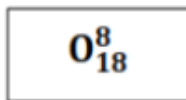
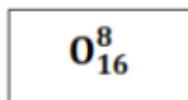
Objective: To define isotopes and explain about isotopes.

ACTIVITY SOLUTIONS

1. Define isotopes? (1 mark)

Isotopes are atoms of the same element having same atomic number but different mass number or same number of protons but different number of neutrons.

2. Compare these two atoms – Oxygen. (1 mark)



Why is oxygen an isotope?

Both isotopes have 8 protons. The isotope with mass number 16 has 8 neutrons while the isotope with mass number 18 has 10 neutrons. Therefore, they have different number of neutrons hence isotope of each other.

THE END