

## Isotopes and their Protons, Electrons and Neutrons, Mass Number and Isotope Notation

Outcomes:

1. explain how a major scientific milestone, the mole, changed chemistry
  - define isotope and use isotopic notation

This practice will help you to understand the relationship between the name of an isotope and its mass number, which is also linked to the number of protons, electrons and neutrons in an isotope. Complete each blank cell with the appropriate information. Each answer in the table is worth 1 mark, for a total of 45 points.

	Isotope Name	Atomic Number	Mass Number	IUPAC Symbol	Number of Protons	Number of Neutrons
1.	carbon-12					
2.		8	15			
3.					74	118
4.		91				148
5.	hydrogen-1					
6.		2	3			
7.					93	149
8.			11		5	
9.	lawrencium-256					
10.			1			0

11. Define isotope. (2 marks)

