

the Atom

BASIC BUILDING BLOCK OF MATTER

CANNOT BE BROKEN DOWN

ORBITAL

- Circular paths of energy
- also known as energy levels

NEUTRON

- 1 amu
- No charge (neutral)
- located in nucleus

MASS NUMBER = Protons + Neutrons

Isotope

atoms of the same element
with different numbers of protons
ex: carbon - 12

ATOMIC MASS

- mass, in amu, of 1 mole of an element

ATOMIC NUMBER

- identifies an element
- Number of protons
- Number of electrons

ELECTRON CONFIGURATION

- amount of electrons in each energy level

ELEMENT SYMBOL

- condensed form of an element's name

ELECTRON

- 0 amu
- -1 charge
- located outside nucleus, in orbitals

PROTON

- 1 amu
- +1 charge
- located in nucleus

MOLE

- amount of substance

AVOGADRO'S NUMBER

* 1 mole = 6.02×10^{23} atoms *

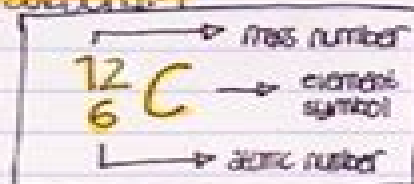
Molar mass
(atomic mass units)

- mass of one mole of a substance

OXIDATION STATES

- charge an element can take on while in a compound

SUBSCRIPT



carbon - 12

All atoms are neutral

AVERAGE ATOMIC MASS = (mass of isotope 1 $\times \frac{\%}{100}$) + (mass of isotope 2 $\times \frac{\%}{100}$) + ...

Defining The Atom Study Guide

Arshad Iqbal



Defining The Atom Study Guide:

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