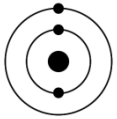
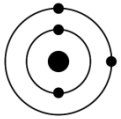
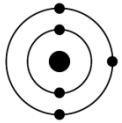
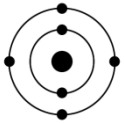
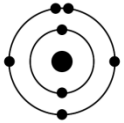
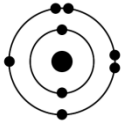
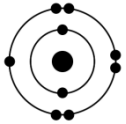
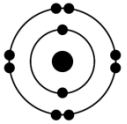
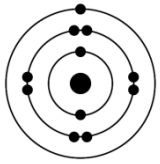
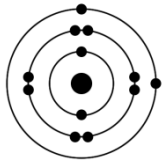
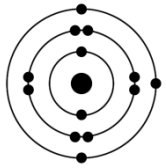
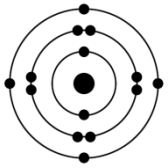
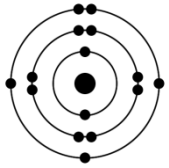
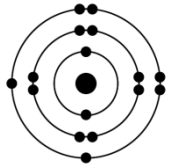
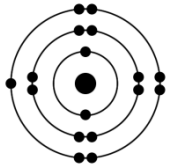
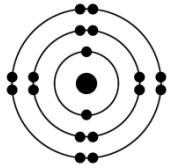
Electronic Configurations for the First Eighteen Chemical Elements – Hydrogen to Argon

	Group I (1)*	Group II (2)*	Group III (13)*	Group IV (14)*	Group V (15)*	Group VI (16)*	Group VII (17)*	Group 0 (18)*
Period 1	$^{1}_{1}$H Hydrogen  Protons = 1 Electrons = 1 Neutrons = 0	Name: …… Class: …… Date: …… / …… / ……		Mass Number → 12 Atomic Number → 6 C • Atomic Number = Number of Protons • Mass Number = Number of Protons + Number of Neutrons • For a Neutral Atom, Number of Electrons = Number of Protons • Number of Neutrons = Mass Number – Atomic Number • Number of Electron Shells = Period Number • Number of Valence Electrons = Group Number				$^{4}_{2}$He Helium  Protons = 2 Electrons = 2 Neutrons = 2
Period 2	$^{7}_{3}$Li Lithium  Protons = 3 Electrons = 3 Neutrons = 4	$^{9}_{4}$Be Beryllium  Protons = 4 Electrons = 4 Neutrons = 5	$^{11}_{5}$B Boron  Protons = 5 Electrons = 5 Neutrons = 6	$^{12}_{6}$C Carbon  Protons = 6 Electrons = 6 Neutrons = 6	$^{14}_{7}$N Nitrogen  Protons = 7 Electrons = 7 Neutrons = 7	$^{16}_{8}$O Oxygen  Protons = 8 Electrons = 8 Neutrons = 8	$^{19}_{9}$F Fluorine  Protons = 9 Electrons = 9 Neutrons = 10	$^{20}_{10}$Ne Neon  Protons = 10 Electrons = 10 Neutrons = 10
Period 3	$^{23}_{11}$Na Sodium  Protons = 11 Electrons = 11 Neutrons = 12	$^{24}_{12}$Mg Magnesium  Protons = 12 Electrons = 12 Neutrons = 12	$^{27}_{13}$A*l* Aluminium  Protons = 13 Electrons = 13 Neutrons = 14	$^{28}_{14}$Si Silicon  Protons = 14 Electrons = 14 Neutrons = 14	$^{31}_{15}$P Phosphorus  Protons = 15 Electrons = 15 Neutrons = 16	$^{32}_{16}$S Sulfur  Protons = 16 Electrons = 16 Neutrons = 16	$^{35.5}_{17}$C*l* Chlorine  Protons = 17 Electrons = 17 Neutrons = 18 or 20	$^{40}_{18}$Ar Argon  Protons = 18 Electrons = 18 Neutrons = 22

*__Note:__ Roman numerals refer to Group number given on the O' Level Periodic Table, Arabic numerals refer to Group number given on the A' level Periodic Table.