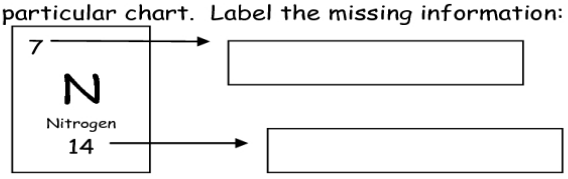
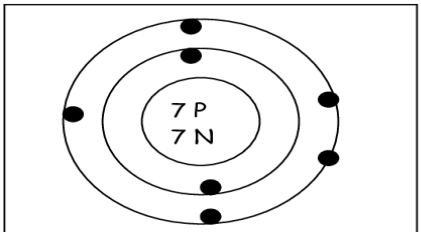
Diagramming Energy Levels – Electron Shell Configurations

Below is a diagram of an atom of Nitrogen found on the 2nd row of the Periodic Table on the back of this worksheet. The chemical symbol for Nitrogen looks like the box below on this particular chart. Label the missing information:





1st Energy Level = 2 electrons
2nd Energy Level = 5 electrons
TOTAL 7 electrons

VALANCE ELECTRONS are the number of electrons in the *OUTERMOST electron shell*, the ones available to form BONDS.

*** REMEMBER: The TOTAL number of electrons should match the number of protons in the nucleus so that the atom is electrically _____! ***

DIAGRAM THE FOLLOWING ELEMENTS:

Carbon: 1st:_____ 2nd:_____ 3rd:_____	Fluorine: 1st:_____ 2nd:_____ 3rd:_____	Magnesium: 1st:_____ 2nd:_____ 3rd:_____	Sodium: 1st:_____ 2nd:_____ 3rd:_____
Argon: 1st:_____ 2nd:_____ 3rd:_____	Sulfur: 1st:_____ 2nd:_____ 3rd:_____	Oxygen: 1st:_____ 2nd:_____ 3rd:_____	Beryllium: 1st:_____ 2nd:_____ 3rd:_____