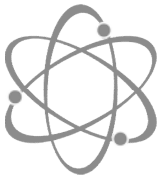
Name: _____ **Date:** _____ **Worksheet 56**
Chemistry

Spring Review



DIRECTIONS: Tell how many significant figures.

____ 5091 g ____ 7600 L ____ 10.0 cm ____ 2,000 kg ____ 98.6° C

____ 67.004 ____ .005 ____ 4050 ____ .20000 ____ 1,000,000

DIRECTIONS: Complete the following conversion factors.

_____ centimeters = 1 inch _____ quarts = 1 liter _____ grams = 1 pound

DIRECTIONS: Read each question carefully and give the best answer for the situation.

$^{23}Na^{+}$

_____ What kind of ion is it? _____ How many neutrons?

_____ How many protons? _____ How many electrons?

DIRECTIONS: List the three major subatomic particles, the charge, the location and the relative mass.

Subatomic Particle	Charge	Location	Mass

DIRECTIONS: Write the electron notation for the following. (example: $1s^2$)

N _____

Cl _____

Ti _____

Ca _____

DIRECTIONS: Write the orbital notation for the following elements. (example: ↑↓)

P __

Cr __

Mg __

DIRECTIONS: Describe valence electrons.

_____

_____

Directions: Determine the number of valence electrons for the following elements.

_____ B _____ Ge _____ S _____ P _____ Ba _____ K _____ Cl

Draw the electron dot diagram for the following atoms:

boron	germanium	sulfur	phosphorus
barium	potassium	lead	Chlorine

DIRECTIONS: Write the octet rule.

_____

_____

Directions: Determine the possible charge in the following elements.

_____ B _____ Ge _____ S _____ P _____ Ba _____ K _____ Cl

Directions: Determine the number of bonds expected in the following elements.

_____ B _____ Ge _____ S _____ P _____ Ba _____ K _____ Cl

DIRECTIONS: Write the modern periodic law.

_____

_____

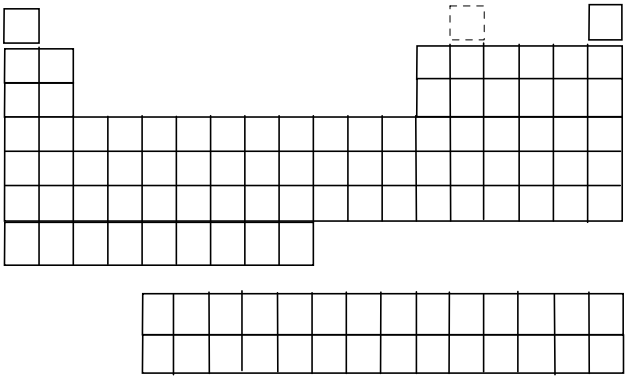
DIRECTIONS: Describe electronegativity.

_____

_____

DIRECTIONS: Label the periodic table below.

s, p, d, and f blocks	halogens	chalcogens	alkaline earth metals
noble gases	alkali metals	metalloids	transition metals



DIRECTIONS: List the characteristics for the following element families.

Alkali Metals:

valence: _____ charge:_____ bonds:_____

Alkaline Earth Metals:

valence: _____ charge:_____ bonds:_____

Boron Family:

valence: _____ charge:_____ bonds:_____

Carbon Family:

valence: _____ charge:_____ bonds:_____

Pnictogens:

valence: _____ charge:_____ bonds:_____

Chalcogens:

valence: _____ charge:_____ bonds:_____

Halogens:

valence: _____ charge:_____ bonds:_____

Noble Gases:

valence: _____ charge:_____ bonds:_____

"Successful people are simply those with successful habits." - Brian Tracy