

Name: _____ Date: _____
Chemistry

Review



ATOMIC STRUCTURE

Directions: Describe the quantum atom.

Directions: Write the complete electron configurations for the following elements.

calcium _____

copper _____

arsenic _____

phosphorus _____

sulfur _____

sodium _____

Directions: Write the complete orbital notations for the following elements.

chromium _____

fluorine _____

sulfur _____

potassium _____

oxygen _____

iron _____

nitrogen _____

Directions: Draw the Lewis dot symbols for C, P, Cl, Na and O.

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PERIODIC TABLE AND TRENDS

Directions: Describe the following terms.

periodic law –

electronegativity –

ionization energy –

CHEMICAL BONDING

Directions: Describe the following terms.

octet rule –

oxidation number –

chemical bond -

ionic bond -

covalent bond –

metallic bond –

Directions: (1) Determine whether the following will bond to form a compound (yes or no).
(2) If there is a possible compound tell if it is covalent or ionic.

_____ Ca and O

_____ Li and Mg

_____ N and H

_____ Pb and Cl

_____ Na and F

_____ K and S

_____ Cs and I

_____ Fe and Na

Directions: Draw Lewis dot structures for the following.

CH₄

NH₃

H₂O

C₂H₂

“Life is not merely to be alive, but to be well.” --Martial