

Name: _____ Date: _____
Chemistry

Worksheet

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.



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