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#Jenny



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#Markus Jensen



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so many fake sites. this is the first one which worked! Many thanks

Chemistry Learning Targets 8-10 Study Guide
Name: Answer Key Period:

Target 8: Electrons
1. Write the electron configuration for the atoms with the atomic numbers 1-8.
Hydrogen $1s^1$ Lithium $1s^2 2s^1$ Boron $1s^2 2s^2 2p^1$ Nitrogen $1s^2 2s^2 2p^3$
Helium $1s^2$ Beryllium $1s^2 2s^2$ Carbon $1s^2 2s^2 2p^2$ Oxygen $1s^2 2s^2 2p^4$

2. Draw in the orbital notation for the atoms with the atomic numbers 1-8.
H = $1s^1$ Li = $1s^2 2s^1$ B = $1s^2 2s^2 2p^1$ N = $1s^2 2s^2 2p^3$
He = $1s^2$ Be = $1s^2 2s^2$ C = $1s^2 2s^2 2p^2$ O = $1s^2 2s^2 2p^4$

3. Complete the Lewis Dot Structures for the atoms with the atomic numbers 1-8.
H: He: Li: Be: B: C: N: O: F:

4. Create a Bohr Model for the atoms with the atomic numbers 1-8.
H: He: Li: Be: B: C: N: O: F:

Target 9: Oxidation and Bonding
5. Identify oxidation states using the periodic table for the following atoms:
Lithium +1
Calcium +2
Boron +3
Tin +4
Carbon +4
Phosphorus +3
Oxygen -2
Fluorine -1
chlorine: variable (stable between -1 and +7)

6. Define ionic bonding: electrons are transferred
metals give electrons to nonmetals

7. Explain a Cation - giving electrons (positive charge)

8. Explain an Anion - taking in electrons (negative charge)

9. Define covalent bonding: sharing electrons (electrons are shared - nonmetal-nonmetal)

Target 10: Chemical Equations
10. Explain the Law of Conservation of Mass.
matter/atoms cannot be created nor destroyed
what you begin with (Reactants) must equal your products.

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