



Name _____ Date _____ Hour _____

Ions

Chemical Reactions Learning Targets

Checklist

I can....

- Explain what happens to elements and compounds during a chemical reaction
- List five signs of a chemical change
- Describe how ions form in respect to gaining or losing valence electrons
- Describe how gaining electrons produces a negative ion and losing electrons produces a positive ion
- Define the terms ion, cation, anion, polyatomic ion, oxidation number, valence electron, chemical change, and physical change

Ionic Bonding Learning Targets

Checklist

I can....

- Describe the octet rule and its importance to ionic bonding
- Predict oxidation numbers for an ion when it loses or gains valence electrons
- Determine valence electrons and oxidation numbers for any element
- Write the correct compound formula from given ions *(including those with roman numerals)*
- Write the correct compound name from a given formula
- Diagram any element as a atom or ion

Chemical Equations Learning Targets

Checklist

I can....

- Define and identify products, reactants, subscripts, and coefficients
- Explain why chemical equations are balanced according to the law of conservation of mass and what may have occurred if it is not balanced
- Balance chemical reactions and identify those reactions that are balanced
- Write a complete chemical reaction from words *(determine ions, formulas, and balance)*