Chemical Bonding

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| ***Teacher:*** | Ms. Athwal | ***Date:*** | October 14 - October 18 | ***Course:*** | Chemistry | ***Grade:*** | 11 |
| ***CA Standard(s):***  3a *Students know* how to describe chemical reactions by writing balanced equations.  Math Remediation – Dimensional Analysis | | | | | | | |
| ***Learning Objective (s):***  LT 3.1 – I can discuss the law of conservation of mass and how it relates to chemical reactions.  LT 3.2 – I can explain how to balance a chemical reaction.  LT 3.3 – I can discuss how to convert between two related units and explain how to complete a multi – step conversion problem involving unrelated units. | | | | | | | |
| ***Essential Question(s):*** How are labs conducted outside of the classroom? | | | | | | | |
| **Assessment**:   * Balancing Equations Quiz (Wednesday) * Exit Slips 4 questions, Monday/Tuesday and Friday/Thursday: * **Exit Slip Monday/Tuesday:**   \_\_\_\_ N2 + \_\_\_\_ H2 🡪 \_\_\_\_ NH3  \_\_\_\_ NaF + \_\_\_\_ Br2 🡪 \_\_\_\_ NaBr + \_\_\_\_ F2   * [**Homework 3.2**](../3.2/3.2.HW.Extra%20Balance%20Problems.doc) * **Exit Slip Thursday/Friday:** * You have 42 dollars. You know the following conversions: * £ 1 pound = $1.62 * £ 1 pound = € 1.25 Euro * How many Euros do you have? | | | | | | | |
| * ***Do Now***:   **Catalyst questions (Monday/Tuesday):**   * Balance the following equation: * Bi + O2 🡪 Bi2O3 * 2. Balance the following equation: * HCl + K2CO3 🡪 H2O + CO2 + KCl * **Catalyst Questions Thursday/Friday:** * Any questions before quiz/ review all homework problems, where there any that were too challenging? | | | | | | | |

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| **WHOLE GROUP/ DIRECT INTRUCTION** |
| * Balancing Chemical Equations * Dimensional Analysis |

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| **SMALL GROUP STATION** |  | **COLLABORATIVE STATION** |  | **COMPUTER ASSISTED STATION** |
| [Around the world document](../3.2/3.2.Around%20the%20World.doc) questions |  | [POGIL balancing equations packets](../../../Chemistry%20Tool%20Kit/POGIL/balancing-chemical-reactions.original%20POGIL%20.pdf) in groups of four |  | Students choose fiftenn beginner, intermediate or challenge level questions on this quiz: <http://education.jlab.org/elementbalancing/>  And answer/check them in compostition notebooks |