Dissolving and Mole Ratios

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| ***Teacher:*** | Ms. Athwal | ***Date:*** | Nov 18 - Nov 22 | ***Course:*** | Chemistry | ***Grade:*** | 11 |
| ***CA Standard(s):***  6c *Students know* temperature, pressure, and surface area affect the dissolving process.  3e *Students know* how to calculate the masses of reactants and products in a chemical reaction from the mass of one of the reactants or products and the relevant atomic masses. | | | | | | | |
| ***Learning Objective (s):***  LT 4.4 – I can hypothesize how surface area, temperature, and pressure impact the dissolving process of a solid.  LT 4.5 – I can convert from moles of one compound to moles of another compound using the mole ratio from a balanced chemical reaction. | | | | | | | |
| ***Essential Question(s):*** How did Fritz Haber both help and hurt billions of people? | | | | | | | |
| **Assessment**:   * Homework 4.2 * Dissolving exit ticket * Factors that affect dissolving mind maps * Mole ratio exit ticket | | | | | | | |
| * ***Do Now***:  1. Describe how dispersion forces are created 2. What intermolecular forces does HF contain? 3. What intermolecular forces does NCl3 contain? 4. Name and describe the factors that affect dissolving rate | | | | | | | |

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| **WHOLE GROUP/ DIRECT INTRUCTION** |
| * Dissolving factors : surface area, pressure, temperature * Mole ratios * Complex Stoichiometry grams to grams |

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| **SMALL GROUP STATION** |  | **COLLABORATIVE STATION** |  | **COMPUTER ASSISTED STATION** |
| Mind Maps |  | Sugar Cube Lab  POGIL Mole Ratios |  | Notes on dissolving process  Video on dissolving process  Phet practice on mole ratios |