Dissolving and Mole Ratios

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| ***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
 |

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

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