**ARC Week at Glance – Meena (S 1, W16)**

**Topic: Properties of solutions Course: Phy.Sci Grade: 9-12 Dates: November 18-22**

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|  | **Learning Target**  **(I am learning …)** | **Criteria for Success**  **(I can…)** | **Activation/ Instruction** | **Collaboration/**  **Guided Practice** | **Independent Learning/ Assessment** |
| *(Include at least one/two formatives\*in any part of the lesson as needed)* | | |
| **Monday** | *I am learning about the properties of solutions****.*** | *I can..*  *- Identify and differentiate the components of a solution: solute and solvent***.**  *-Develop and use models to explain the properties (solute/solvent, conductivity, and concentration) of solutions.* | *Bell work: Explain the process of preparing lemonade with raw materials*.  *Solutions: Pre-Assessment.* | *Slides & student notes on solutions.* | *Solutions, concentration, solubility worksheet*. |
| **Tuesday** | *I am learning about the properties of solutions* | *I can..*  *- Identify and differentiate the components of a solution: solute and solvent***.**  *-Develop and use models to explain the properties (solute/solvent, conductivity, and concentration) of solutions* | *Bell work:*  *Match each definition to the correct word:*  *-Evenly distributed mixture of two or more substances*  *-How much solute is dissolved in the solution*  *-The substance that does the dissolving*  *-The substance that is dissolved* | *Ed puzzle video – types of solution and types of saturation.* | *Solutions, concentration, solubility worksheet.* |
| **Wednesday** | *I am learning about the properties of solutions* | *I can*  *-determine how temperature, surface area, and agitation affect the rate solutes dissolve in a specific solvent* | *Bell work:*  *Quizz on solubility and factors that increase the solubility of substances.* | *Sugar lab—on rotation/ group/ demonstration* | *Exit ticket: Complete the analysis and conclusion on the lab you did today*. |
| **Thursday** | *I am learning about the properties of solutions* | *I can*  *--Analyze and interpret data from a solubility curve to determine the effect of temperature on solubility.* | *Bell work:*  *Rohan is conducting an experiment in his chemistry class. He prepares a solution and notices that it contains more solute than would normally dissolve at a certain temperature. What type of solution has Rohan prepared?* | *Power point slides, notes, discussion on solubility curve.*  *Students will learn to interpret and analyze data from the given solubility curve.* | *Reading and study skills –assignment. /solubility curve worksheet.* |
| **Friday** | *I am learning about the properties of solutions* | *I can*  *--Analyze and interpret data from a solubility curve to determine the effect of temperature on solubility.* | *Bell work: Explanation questions on solubility curve*. | *Unit test: solutions –post assessment.* | *Science fair project submission*. |

**Additional Info: Literacy Task Minor Grade Major Grade Course materials and resources are available in Canvas.**