**ARC Week at Glance – Meena (S2, W11)**

**Topic: gravitational force Course: Phy.Sci Grade: 9-12 Dates: March 17-21**

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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 newton’s law of motion.* | *I can…*  *Solve the mathematical relationship between force, mass and acceleration.* | *Do Now—reading and interpreting a graph*  *Teaching on Force, mass, velocity, and acceleration and their relationship.* | *Continue Worksheet, F=ma practice problems.* | *Review for the test.* |
| **Tuesday** | *I am learning about mass and gravitational force.* | *I can…*  *Analyze and interpret data to identify the relationship between mass and gravitational force for falling objects.* | *Do Now: Claim evidence reasoning questions* | *Gravity and motion power point and student notes.* | *Gravity and motion worksheet.* |
| **Wednesday** | *I am learning about mass and gravitational force.* | *I can…*  *Investigate the motion of an object as it falls to the ground.* | *Do Now: Math/data analysis practice.* | *Free fall laboratory gizmo.* | *Exit ticket: what interested you in today’s gizmo.* |
| **Thursday** | *I am learning about mass and gravitational force.* | *I can…*  *Demonstrate my understanding on the concept of newton’s law, force, acceleration.* | *Review for the test.* | *Unit test—newton’s law, force and gravity.* | *Go over the answers and plan for reassessment.* |
| **Friday** | *I am learning about mass and gravitational force.* | *I can..*  *Investigate the motion of an object as it falls to the ground.* | *Do Now: multiple choice questions with reasoning.* | *Free fall laboratory gizmo.* | *Exit ticket: what interested you in today’s gizmo.* |

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

**ARC Week at Glance – Meena (S2, W11)**

**Topic: Acids and bases Course: AP Chemistry Grade: 9-12 Dates: March 17-21**

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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 acids and bases.* | *I can-describe how [H+] and [OH-] are related in aqueous solution.*  *--classify a solution as neutral, acidic or basic by using pH.* | *Bell ringer:*  *A solution has a [–OH] of 5.8 x 10-7. What is the pH of this solution?*  *-Go over the steps in calculating ph, poh [H+] [OH-]* | *-students will work in groups to complete a teacher created assignment in calculating ph, poh, [H+] [OH-]* | *Exit ticket:*  *Challenge your elbow partner to calculate ph and poh of substances.* |
| **Tuesday** | *I am learning about acids and bases.* | *I can -describe how [H+] and [OH-] are related in aqueous solution.*  *--classify a solution as neutral, acidic or basic by using pH.*  *-describe acid base theories.* | *Bell ringer: finding pH and pOH of substances.* | *Worksheet on pH and pOH.* | *College board videos 8.2* |
| **Wednesday** | *I am learning about acids and bases.* | *I can—identify the property used to classify acids and bases as strong or weak.* | *Bell ringer: List some acids and bases you already know.*  *-discuss what factor determines whether an acid or base is strong or weak.* | *Power point –have students research about the sources and causes of acid rain.*  *Direct students to compare the bar graph to realize the extent of ionization or dissociation of strong and weak acids and bases.* | *College board videos 8.3* |
| **Thursday** | *I am learning about acids and bases.* | *I can – calculate acid dissociation constant Ka and base dissociation constant Kb.* | *Bell ringer: How do acid dissociation constants vary between strong acids and weak acids?*  *-watch a video explaining the dissociation of acids and bases.* | *Students will learn to write the equation for calculating the Ka for different acids. Explain how the extent to which products or reactants are favored can be determined from the values of Ka or Kb* | *Exit ticket: what interested you in today’s lesson?* |
| **Friday** | *I am learning about acids and bases.* | *I can-define the products that form when an acid and a base react.*  *--Identify the point in a titration when neutralization occur* | *Bell ringer: In a 0.1000M solution of methanoic acid. [H+] = 4.2 x 10^3M. Calculate the Ka of this acid.*  *--go over the steps in solving the problem and lead the instruction for completing the pogil.* | *Students will complete a pogil to understand the difference between weak and strong acid, dissociation constant, a neutralization reaction by titration method.* | *Exit ticket: what is the special about pogil you did?*  *College board videos -8.4* |

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