**ARC Week at Glance – Meena (S2, W12)**

**Topic: Simple machine Course: Phy. Sci Grade: 9-12 Dates: March 24-28**

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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 simple machines.* | *I can…*  *Define work as an object being moved through a distance by a force.* | *Do Now—reading and interpreting a graph.* | *Discussing the difference between work and power.*  *Guided notes.* | *Exit ticket : How different machines change force?* |
| **Tuesday** | *I am learning about simple machines.* | *I can…*  *Understand the concept of power.*  *Explain the types of simple machine and how they make work easier.* | *Do Now: Claim evidence reasoning questions* | *Assignment to solve for work and power.* | *Presentation of students solved problems.* |
| **Wednesday** | *I am learning about simple machines.* | *I can…*  *Identify how simple machines operate in a system to create mechanical advantage.* | *Do Now: Math/data analysis practice.* | *Types of simple machine –graphic organizer.* | *Exit ticket : mention the types of simple machine you visualize in this classroom.* |
| **Thursday** | *I am learning about simple machines.* | *I can…*  *-Solve work problems*  *Solve for mechanical advantage* | *Do Now: Math/data analysis practice.* | *Calculating mechanical advantage --assignment* | *Calculating work power, mechanical advantage –quiz/test* |
| **Friday** | *I am learning about simple machines.* | *I can…*  *Create a catapult that will use the principle of a simple machine.* | *Do Now: multiple choice questions with reasoning.* | *Sketching and designing to make catapult as a group.* | *TOTD: brief your step to create a catapult.* |

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

**ARC Week at Glance – Meena (S2, W12)**

**Topic: Acid and base equilibrium Course: AP Chemistry Grade: 9-12 Dates: March 24-28**

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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 acid and base equilibrium.* | *I can*  *Calculate pH and pOH of weak acids and bases.* | *Bell ringer: How do acid dissociation constants vary between strong acids and weak acids?* | *Assignment—strong and weak acid* | *College board videos* |
| **Tuesday** | *I am learning about acid and base equilibrium* | *I can – calculate acid dissociation constant Ka and base dissociation constant Kb.* | *Bell ringer: Determine the pH and pOH of 0.35M aqueous solution of CH3NH2 methylamine (base).*  *Kb= 4.4 x10^-4* | *Students will work in pairs to complete an assignment to calculate ka and kb. The teacher will circulate to assist students in finding Ka, Kb, pH and pOH and encourage students to share and teach each other.* | *Exit ticket: what interested you in today’s lesson?* |
| **Wednesday** | *I am learning about acid and base equilibrium* | *I can – calculate acid dissociation constant Ka and base dissociation constant Kb.* | *Bell ringer:*  *Write complete balanced equation of:*  *H2SO4 + KOH -🡪*  *Which type of reactions are neutralization reactions? Explain your answer.* | *Students will work in pairs to complete an assignment to calculate ka and kb. The teacher will circulate to assist students in finding Ka, Kb, pH and pOH and encourage students to share and teach each other.* | *Exit ticket: Write the generic expression for Ka and Kb* |
| **Thursday** | *I am learning about acid and base equilibrium* | *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:*  *What is the molarity of a solution of H3PO4 if 15.0ml is neutralized by 38.5 ml of 0.150M of NaOH* | *Gpb.org video on neutralization reaction. video will be paused in between to explain definition of neutralization. Also learn to find the moles needed for neutralization* | *Exit ticket: what did you understand from today’s lesson?* |
| **Friday** | *I am learning about acid and base equilibrium* | *I can-Demonstrate my understanding on the concept of calculating pH and pOH , Ka and Kb* | *Review for the test.* | *Unit test—calculating pH and pOH* | *Retesting plan.* |

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