**ARC Week at Glance**

**Topic: Scalars and Vectors/ Velocity and Acceleration Course: AP Physics Grade: 10-12 Dates: 8/12/24**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Learning Target**  **(I am learning about…)** | **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 standard units and measurements in science | I can convert standard units  I can use measurement equipment appropriately | Standard Units Matching Activity  Scalar and Vectors Mini Lesson | **Measurements and Conversions Lab** | Conversions/ SI Units comprehension check |
| **Tuesday** | I am learning about experimental design | I can collect data and analyze it.  I can calculate average velocity of an object. | Data Analysis Activity | Data Collection and Analysis | Average Velocity CER |
| **Wednesday** | I am learning how to represent motion through graphs | I can create a velocity time graph and position time graph.  I can make inferences from Velocity Time graphs and position time graphs. | Write a description of a the position of an object over time. Write a verbal description of an objects velocity over time | Practice making position time graphs and velocity time graphs | Write your own crazy physics story. Draw the motion graphs that go with it. |
| **Thursday** | I am learning about constant acceleration | I can determine the acceleration of an object based on a velocity time graph  And the formula | Acceleration from a Velocity Time graph—Turn and Talk | Deriving Acceleration from graphs and story problems. | Create the position time, velocity time, and acceleration time graph of an object from a story. |
| **Friday** | I am learning about constant acceleration | I can determine the acceleration of an object based on a velocity time graph  And the formula | Acceleration Graph Interpretation | Acceleration Review Game | Acceleration, Velocity and Position Quiz |

\*\*Please highlight your literacy tasks, your major grades and your minor grades. I suggest color coding.