*Grade 9,10*
Distance Learning Module 8:  Week of:  May 26 - May 29

# Conceptual Physics - *Modified from [Unit # 1 - Force and Motion](#)*

## Targeted Goals from Stage 1: Desired Results

**Content Knowledge:**

- Velocity is the change in position with respect to time
- The acceleration of an object depends upon its mass and the net force acting on it.
- Graphs are used by scientists to communicate information and to interpret the relationship between physical variables
- Scientists examine evidence to formulate interesting questions and solve problems.
- Acceleration is the change in velocity with respect to time and it has a direction (it is a vector)

**Vocabulary:** distance, time, velocity, acceleration, distance, displacement, vectors, distance-time graph, velocity-time graph

**Skills:** Analyze qualitative and quantitative data to interpret patterns, draw conclusions, and/or make predictions.

**Expectation:**

| Description of Task (s): | Resources and Materials: | Daily Checks (Return to Google Classroom or snapshots from a cell phone) |
|---|---|---|
| Monday | Memorial Day | No School |
| Tuesday:: Students will be able to analyze a position-time graph and determine average speed and how it differs from instantaneous speed. | Review Motion Notes<br><br>Mouse in the House Activity | Submit Mouse in the House<br><br>Distance-Time Graphs vs Speed-Time Graphs Ed Puzzle |
| Wednesday:: Students will be able to explain what | | |

| Description of Task (s): | Resources and Materials: | Daily Checks (Return to Google Classroom or snapshots from a cell phone) |
|---|---|---|
| acceleration is and how it can be calculated using changes in velocity | Calculating Acceleration EdPuzzle Lesson<br><br>Calculating Acceleration Practice Problems | Submit Practice Problems to Google Classroom (Show work on a few problems) |
| Thursday::<br><br>Students will be able to connect real-world data to the acceleration of an object down a ramp and be able to show this motion in a graph | What is a Ticker Tape? You Tube Video<br><br>Ticker Tape Acceleration Lab Introductory Video with Supplied Data<br><br>Lab Graphs/Ticker Tape Acceleration Lab | Continue working on Lab (Due tomorrow) |
| Friday:<br>Students will be able to connect real-world data to the acceleration of an object down a ramp and be able to show this motion in a graph | Continue working on Ticker Tape Acceleration Lab Activity/Graph | Submit Ticker Tape Acceleration Lab and Graph into Google Classroom |

**Week criteria for success** (attach student checklists or rubrics):

Students will complete all of the work in the module

Students will earn at least a 75% on all of the submitted calculations and Edpuzzle check-in assessment

**Supportive resources and tutorials for the week** (plans for re-teaching):

Physical Science Concepts in Action Glossary

Physical Science Concepts in Action Chapter 11 Motion

Unit 1 Part 2 Motion Review Guide