Grade 9.10
Distance Learning Module 7: Week of: May 18th – May 22nd

Conceptual Physics - *Modified from Unit #1 - Forces and Motion*

Targeted Goals from Stage 1: Desired Results

Content Knowledge:

- Velocity is the change in position with respect to time
- The motion of objects must be defined by using a frame of reference.
- Graphs are used by scientists to communicate information and to interpret the relationship between physical variables

Vocabulary: distance, time, velocity, frame of reference, relative motion, 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: (links are posted in Google Classroom)	Daily Checks (Return to Google Classroom or snapshots from a cell phone)
Monday: Students will be able to explain relative motion and how motion is measured using an object's frame of reference.	Introduction to Relative Motion Frames of Reference Activity	EdPuzzle Relative Motion
Tuesday: Students will be able to explain the difference between distance and displacement	Distance vs Displacement Lab (Day 2 and 3) Calculator ruler or measuring tape (meters preferred but feet are ok) piece of tape or a marker	Continue working on the lab calculations and activities (The lab itself is due Wednesday)

Description of Task (s):	Resources and Materials: (links are posted in Google Classroom)	Daily Checks (Return to Google Classroom or snapshots from a cell phone)
Wednesday: Students will be able to calculate displacement using two distance vectors and the Pythagorean Theorem.	Continue working on the Distance and Displacement Lab	Submit the Distance vs Displacement Lab to Google Classroom Distance & Displacement Quizizz Game
Thursday: Students will be able to describe how their motion appears when seen on a distance-time graph.	Introduction to Motion: Distance and Velocity Time Graphs- Pocket Lab Sensor	Distance-Time Lab Exit Ticket
Friday: Students will be able to describe how their motion appears when seen on a velocity-time graph.	Complete Investigation 2 of the Introduction to Motion Lab	Submit the Introduction to Motion DIstance and Velocity vs Time Graphs Edulastic Motion Check-In Assessment

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

Students will complete and submit all activities and assessments for the module

Students will score at least a 75% on each of the daily check-ins and/or the Edulastic Friday 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