

Grade 9, 10

Distance Learning Module 6: Week of: May 11th -May 15th

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
- Newton's second law accurately predicts changes in the motion of macroscopic objects.
- A free body diagram (FBD) is used to graphically depict the forces on an object and to predict its motion

Vocabulary: mass weight, Newton's Laws, density, force, net force, velocity, acceleration, friction, balanced forces, unbalanced forces, buoyancy, free body diagram, constant velocity,

Skills: Solving motion problems using mathematical computations

Graphs are used by scientists to communicate information and to interpret the relationship between physical variables

Expectation

Description of Task (s):	Resources and Materials:	Daily Checks (Return to Google Classroom or snapshots from a cell phone)
Monday: Students will review friction forces and how they affect the movement of or lack of movement in objects with inertia	5.1 Friction Concept-Development Practice Page	Complete and submit via Google Classroom
Tuesday: Students will be able to demonstrate their understanding of forces and practice their skills in calculating the solution to	Unit 1 Part 1: Forces Review Guide Forces Edulastic Check-In Study Guide Assessment	Completion and Submission of the Edulastic Check-In Assessment

Description of Task (s):	Resources and Materials:	Daily Checks (Return to Google Classroom or snapshots from a cell phone)
mathematical problems using physics formulas		
<p>Wednesday:</p> <p>Students will review their submitted Forces Check-in Study guide assessment and check answers</p>	<p>Forces Edulastic Check-In Study Guide Assessment Answers</p> <p>Review correct/incorrect answers for content and analysis</p>	Post Forces Unit Assessment Student Survey
<p>Thursday:</p> <p>Students will be able to measure and calculate the velocity of a marble rolling on the floor and consider variables which affect changes in velocity.</p>	<p>Constant Velocity Motion Lab Intro Video</p> <p>Constant Velocity Motion Lab</p>	Complete Constant Velocity Calculations and Line Graph (submit all of these with the lab tomorrow)
<p>Friday:</p> <p>Students will be able to measure and calculate the velocity of a marble rolling on the floor and consider variables which affect changes in velocity.</p>	Continue working on Constant Velocity Motion Lab	Submit completed Constant Velocity Motion Lab, calculations, and graph to Google Classroom

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

Students will submit all work to Google classroom and work will demonstrate effort and completeness

Student work submissions will contain at least a 75% level of content proficiency

Student will achieve at least a 75% on the Force Check-in Study Guide Edulastic assessment

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

Physical Science Concepts in Action Glossary

Unit 1 Part 1: Forces Review Guide

Physical Science Concepts in Action Chapter 11 Motion

Unit 1 Part 2 Motion Review Guide

Physical Science Concepts in Action Chapter 12 Forces