Distance Learning Module 5: Week of: April 27- May 1

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

Targeted Goals from Stage 1: Desired Results

Content Knowledge: Newton's second law accurately predicts changes in the motion of macroscopic objects.

Vocabulary: mass, weight, buoyancy, buoyant force, density, Newton's Laws of Motion, gravity, acceleration, Isaac Newton, Albert Einstein, hovercraft, friction, Archimedes Principle, Quantum Mechanics, probability

Skills: Students will be able to examine information/data/evidence to make inferences and identify possible underlying assumptions, patterns, and relationships.

Expectation:

Description of Task (s):	Resources and Materials:	Daily Checks (Return to Google Classroom or snapshots from a cell phone)
Monday: Students will be able to explain Newton's 3 Laws of Motion and give examples of each kind in daily life	Newton's Laws Sorting Activity	Newton's Laws Exit Slip
Tuesday: Students will be able to begin forming ideas about forces and motion and how they interact by observing a Hovercraft in motion.	Hovercraft Demonstration Video What is a Hovercraft Reading and questions #1-6	Submit Hovercraft Questions in Google Classroom
Wednesday: Students will be able to describe how Archimedes Principle explains how the buoyant force of water and density	Phet interactive Buoyancy Activity Phet Interactive Buoyancy/Archimedes	Submit Archimedes Principle Activity to Google Classroom

Description of Task (s):	Resources and Materials:	Daily Checks (Return to Google Classroom or snapshots from a cell phone)
determines whether a specific object will sink or float	Principle Activity	
Thursday: Students will be able to explain how submerging an object in water provides an opposing buoyancy force to gravity by analyzing data of objects suspended in water	Buoyant Force Video Introduction and Data Determining Buoyant Force Lab	Submit Determining Buoyant Force Lab Activity with questions #1-4 attached submitted to Google Classroom
Friday: Students will be able to explain advances in the science of physics since the time of Isaac Newton, to Einstein, to the present day.	The Elegant Universe Movie	The Elegant Universe Exit Slip

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

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

Unit 1 Part 1: Forces Review Guide

Physical Science Concepts in Action Chapter 13.3 Buoyancy Force

Physical Science Concepts in Action Glossary

Newton's Laws Notes