

Grade 9

Distance Learning Module 1: Week of: March 30-April 3

Content Area: Conceptual Physics - Unit 0: Science Method and Measurement

Targeted Goals from Stage 1: Desired Results

Content Knowledge: Good experimental design leads to precise and accurate data.

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

Vocabulary: hypothesis, independent/manipulated variable, dependent/responding variable, control group, constants, qualitative observation, quantitative observation, mass, volume, density, centi-, milli-, kilo-, accuracy, precision

Skills: Analyze qualitative and quantitative data to interpret patterns, draw conclusions, and/or make predictions.
Use the scientific process to generate evidence that addresses the original questions.

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 their guesses for the Mystery Masses Activity	Google Classroom Video Link that introduces activity <u>Mystery Masses Activity</u>	Submitted Google form explanation for mystery masses
Tuesday: Students will be able to explain the scientific method and be able to identify the manipulated (independent) variable and the responding (dependent) variable in several scientific scenarios.	<u>Scientific Method Notes</u> <u>Scientific Method Scenarios</u>	Submitted Scientific Method Scenarios in classroom

Description of Task (s):	Resources and Materials:	Daily Checks (Return to Google Classroom or snapshots from a cell phone)
Wednesday: Graphing review/identifying variables Create a scientific graph using graphing rules	<u>How to draw a graph in science class</u> <u>Graph paper</u> (if needed) <u>Graphing Activity</u> ruler colored pencils	Completed first two graphs/submit in classroom with cell phone photo uploaded of graph
Thursday: Students will be able to interpret graphing scenarios by identifying variables	<u>Variables and Graphing Practice</u> Question/Answer session via ZOOM	Complete graphing activity and practice from yesterday. Submit w/cell phone or scanned upload
Friday: Students will be able to demonstrate their current understanding of science method and graphing by completing a check-in.	Finish any unfinished work Complete assessment/check-in	Edulastic or Google Form assessment

Week criteria for success: Completed Activities with general success/participation

Score at least 75% on end of week assessment/check-in quiz

Supportive resources and tutorials for the week

Relevant Textbook Chapter: Chapter 1 Physical Science Concepts in Action (posted in Classroom)

Check in via Google Hangouts/discuss/ video recordings

Unit 0: Scientific Method and Measurement Review Guide [Unit 0 Review Guide](#)

