

Oberlin High School
Teacher: Mr. S. Edwards
Grade 10 Physics- Term 1

Date	Section	Topics	Objectives
October	Mechanics: Measurement	Introduction to class and Assessment	<ul style="list-style-type: none"> • Discuss class expectations, assessment
		Significant figures, index notation	<ul style="list-style-type: none"> • Express results or measurements to an appropriate number of significant figures or in index notation.
		Quantities, Errors and Scales	<ul style="list-style-type: none"> • Discuss possible types of errors and sources of errors in any measurement • Fundamental and Derived quantities with their respective SI Units • Recall the special names given to some derived quantities. • Discuss prefixes used in relation to quantities • Differentiate between analogue and digital scales
		Uses of instruments and their Suitability	<ul style="list-style-type: none"> • Use a variety of instruments to measure different quantities • Assess the suitability of instruments based on precision, accuracy, and Range.
		Area, volume, and Density	<ul style="list-style-type: none"> • Calculate area, volume, and density for regular and irregular objects.
		Transposition	<ul style="list-style-type: none"> • Suitably transpose any given formula

November-December	Mechanics: Galileo and Simple Pendulum	Galileo	<ul style="list-style-type: none"> • Discuss how the methodology employed by Galileo contributed to the development of Physics
		Graph	<ul style="list-style-type: none"> • Suitably plot graphs • Draw line of best fit for a set of plotted values. • Determine the gradient of the straight-line graph. • Derive the units of the gradient.
		Simple Pendulum	<ul style="list-style-type: none"> • Investigate the factors that affect the period of a pendulum. • Use graph of experimental data from simple pendulum
	Mechanics: Statics	Forces	<ul style="list-style-type: none"> • Explain the effects of forces • Identify forces • Determine the weight of objects