BEACONSFIELD HIGH SCHOOL

Year 8 Physics Grade Descriptors

Topic	Developing	Proficient	Confident
Electricity	• Identifies positive and negative charges and simple interactions. • Defines current, potential difference and resistance with units. • Recognises basic circuit symbols and simple series or parallel circuits. • Describes everyday examples of electrical phenomena.	• Explains charging by electron transfer and electric fields. • Measures current and potential difference correctly in circuits. • Uses equations relating current, potential difference and resistance. • Describes how current and potential difference vary in series and parallel circuits.	• Explains electric fields and compares them with gravitational fields. • Rearranges and applies electrical equations independently. • Analyses unfamiliar circuits for errors or improvements. • Justifies circuit design choices using electrical principles.
Energy	• Identifies energy stores and simple energy transfers. • Recognises renewable and non-renewable energy resources. • Describes heating and energy transfer in everyday situations. • Defines work, energy and power in simple terms.	• Applies conservation of energy to familiar situations. • Explains conduction, convection and radiation using particle models. • Uses equations for work done, power and energy transfer. • Compares energy resources using advantages and disadvantages.	• Analyses energy transfers in unfamiliar scenarios. • Rearranges and applies energy and power equations. • Evaluates energy resources using environmental and practical factors. • Explains temperature change and equilibrium using particle ideas.

Motion and Pressure	• Calculates average speed using distance and time. • Describes motion using distance–time graphs. • Recognizes pressure in gases, liquids and solids. • State the differences between mass and density • Identifies simple examples of turning effects and pressure	• Distinguishes between average and instantaneous speed. • Calculates speed from graphs and explains motion. • Calculates the density of an object • Explains pressure changes in gases and liquids using particles. • Calculates pressure and moments using equations.	• Analyses motion graphs in unfamiliar contexts. • Explains floating and sinking using ideas of pressure and density. • Rearranges pressure and moment equations independently. • Applies the law of moments to balanced and unbalanced systems.