

Year 11

Timing	Unit Title	Key Question	Knowledge	Assessing understanding
Autumn	Forces and Motion	How do we describe motion?	• Reaction Times, Thinking, Braking and Stopping Distance • Speed, distance and time • Distance and Velocity-Time Graphs • Solving problems with acceleration and SUVAT equations	How understanding is assessed Students will be assessed on their ability to: • Recall the knowledge covered • Explain the Physical processes covered. • Interpret graphical and experimental data • Plan and describe valid experiments • Evaluate experimental procedures and results
	Forces In Action	How do we represent forces?	• Scalars and Vectors - representing vectors • Distance + Displacement • Adding Vectors Scale Drawing • Resolving Vectors • Forces as Vectors and free-body diagrams • Resultant forces • Weight, gravity	Skills • Description • Explanation • Evaluation • Comparison • Planning and carrying out investigations • Manipulating Mathematical Formulae
		How can Forces be used to help?	• Newton 1st, 2nd and 3rd Laws • Required Practical 7 - Newton's Second Law • Terminal Velocity • Satellites in terms of Gravity – circular motion	Assessment point information Based on: • Home works during the term • Possible test in first half term on Electricity • Test in second half term on Motion, SUVAT and Scalars and Vectors.

Spring	Electromagnetism	How can electricity and magnetism be used to help?	● Momentum: Conservation and Change ● Magnets, Magnetic materials and Magnetic Fields ● Electromagnetism ● Electromagnetic Devices ● The Motor Effect ● How Motors work ● Loudspeakers ● Electromagnetic Induction 1 ● Electromagnetic Induction 2 ● Microphones ● Transformers 1 ● Transformers 2	How understanding is assessed Students will be assessed on their ability to: ● Recall the knowledge covered ● Explain the Physical processes covered. ● Interpret graphical and experimental data ● Plan and describe valid experiments ● Evaluate experimental procedures and results Skills ● Description ● Explanation ● Evaluation ● Comparison ● Planning and carrying out investigations ● Manipulating Mathematical Formulae Assessment point information Based on: ● Home works during the term ● Mock Exams covering all topics studied so far

Summer	Turning Forces and Pressure Revision		• Centre of Mass / Stability • Moments, Levers and gears • Pressure equation • Atmospheric Pressure Revision of all areas.	How understanding is assessed Students will be assessed on their ability to: • Recall the knowledge covered • Explain the Physical processes covered. • Interpret graphical and experimental data • Plan and describe valid experiments • Evaluate experimental procedures and results Skills • Description • Explanation • Evaluation • Comparison • Planning and carrying out investigations • Manipulating Mathematical Formulae Assessment point information Based on: • GCSE Exams
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