

Year 11

Timing	Unit Title	Key Question	Knowledge	Assessing understanding
Autumn	<p>Forces and Motion</p> <p>Forces In Action</p>	<p>How do we describe motion?</p> <p>How do we represent forces?</p> <p>How can Forces be used to help?</p>	<ul style="list-style-type: none"> • Reaction Times, Thinking, Braking and Stopping Distance • Speed, distance and time • Distance and Velocity-Time Graphs • Solving problems with acceleration and SUVAT equations • Scalars and Vectors - representing vectors • Distance + Displacement • Adding Vectors Scale Drawing • Resolving Vectors • Forces as Vectors and free-body diagrams • Resultant forces • Weight, gravity • Newton 1st, 2nd and 3rd Laws • Required Practical 7 - Newton's Second Law • Terminal Velocity • Satellites in terms of Gravity – circular motion 	<p>How understanding is assessed</p> <p>Students will be assessed on their ability to:</p> <ul style="list-style-type: none"> • Recall the knowledge covered • Explain the Physical processes covered. • Interpret graphical and experimental data • Plan and describe valid experiments • Evaluate experimental procedures and results <p>Skills</p> <ul style="list-style-type: none"> • Description • Explanation • Evaluation • Comparison • Planning and carrying out investigations • Manipulating Mathematical Formulae <p>Assessment point information</p> <p>Based on:</p> <ul style="list-style-type: none"> • 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?	<ul style="list-style-type: none"> ● 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 	<p>How understanding is assessed Students will be assessed on their ability to:</p> <ul style="list-style-type: none"> ● Recall the knowledge covered ● Explain the Physical processes covered. ● Interpret graphical and experimental data ● Plan and describe valid experiments ● Evaluate experimental procedures and results <p>Skills</p> <ul style="list-style-type: none"> ● Description ● Explanation ● Evaluation ● Comparison ● Planning and carrying out investigations ● Manipulating Mathematical Formulae <p>Assessment point information Based on:</p> <ul style="list-style-type: none"> ● Home works during the term ● Mock Exams covering all topics studied so far
Summer	Turning Forces and Pressure		<ul style="list-style-type: none"> ● Centre of Mass / Stability ● Moments, Levers and gears 	<p>How understanding is assessed Students will be assessed on their ability to:</p> <ul style="list-style-type: none"> ● Recall the knowledge covered

	Revision		<ul style="list-style-type: none"> ● Pressure equation ● Atmospheric Pressure <p>Revision of all areas.</p>	<ul style="list-style-type: none"> ● Explain the Physical processes covered. ● Interpret graphical and experimental data ● Plan and describe valid experiments ● Evaluate experimental procedures and results <p>Skills</p> <ul style="list-style-type: none"> ● Description ● Explanation ● Evaluation ● Comparison ● Planning and carrying out investigations ● Manipulating Mathematical Formulae <p>Assessment point information</p> <p>Based on:</p> <ul style="list-style-type: none"> ● GCSE Exams
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