

	Autumn	Spring	Summer
Knowledge & Skills	Forces <ul style="list-style-type: none">• Scalar, vector, contact & non-contact forces• Mass, weight & centre of mass• Resultant forces• Work done with force• Energy changes by doing work• Hooke’s law required practical• Calculating speed• Distance/time graph• Acceleration and velocity time graphs• Terminal velocity• Newton’s laws of motion• Acceleration required practical• Stopping distances• Reaction & thinking• Energy transfers & stopping• Momentum• Conservation of momentum (SS only)• Moments, levers & gears (SS only)• Pressure in solids & liquids (SS only)	Waves <ul style="list-style-type: none">• Types of waves• Properties of waves• Waves required practical• Sound• Reflection & refraction required practical• Electromagnetic spectrum – uses & dangers• Infrared radiation required practical• Communication• Lenses• Visible Light• Black bodies Magnetism <ul style="list-style-type: none">• Magnetic fields• Electromagnets & solenoids• Electromagnetic induction• Motor effect• Microphones & loudspeakers• Transformers	Space (SS only) <ul style="list-style-type: none">• Birth of solar system• The star cycle• Orbits (circular motion)• The expanding universe
Links to prior learning	<ul style="list-style-type: none">• Year 7 Forces• Year 8 Energy, Heat & Insulation• Year 8 Pressure• Year 9 Forces & Motion	<ul style="list-style-type: none">• Year 8 Light & Sound• Year 9 Astronomy	<ul style="list-style-type: none">• Year 9 Astronomy
Assessment	<ul style="list-style-type: none">• assessment• formative assessment• Year 11 mock exam	<ul style="list-style-type: none">• formative assessment• assessment	<ul style="list-style-type: none">• formative assessment
Home learning	<ul style="list-style-type: none">• Educake• GCSEpod• Past paper exam questions• Reading comprehensions	<ul style="list-style-type: none">• Educake• GCSEpod• Past paper exam questions• Reading comprehensions	<ul style="list-style-type: none">• Educake• GCSEpod• Past paper exam questions• Reading comprehensions
Cultural Capital and extra-curricular opportunities	<ul style="list-style-type: none">• Targeted Intervention	<ul style="list-style-type: none">• Targeted Intervention	<ul style="list-style-type: none">• Targeted Intervention
Literacy	<ul style="list-style-type: none">• Key words & definitions• Etymology of keywords	<ul style="list-style-type: none">• Key words & definitions• Etymology of keywords	<ul style="list-style-type: none">• Use and mastery of command words in 6 mark Questions
Numeracy	<ul style="list-style-type: none">• Calculations for work done, resultant forces, acceleration• Drawing and using distance time graphs• Drawing and interpreting velocity time graphs• Newton’s second law	<ul style="list-style-type: none">• Calculating frequency and time• Wave speed equations	<ul style="list-style-type: none">• Distances in space• Reinforcing the layout of scientific equations to maximise mark gaining
Careers Information, Education, Advice and Guidance (CEIAG)	<ul style="list-style-type: none">• Traffic officer• Car design• Car mechanic	<ul style="list-style-type: none">• Optician• Communication engineer	<ul style="list-style-type: none">• Astronomer• Astrophysicist
Spirituality	<ul style="list-style-type: none">• Respect for Scientists such as Hooke and Netwon and their contributions to the field of Science	<ul style="list-style-type: none">• Understand the implications for all life on Earth without light• Empathy and understanding for those who live without light and sound• How sounds are linked to emotion – how do certain sounds make us feel?	<ul style="list-style-type: none">• Foster curiosity of our place in the universe• Consider what other life forms there may be
How can parents support the curriculum?	<ul style="list-style-type: none">• Encourage students to frequently revisit topics covered last year and those covered earlier this term• Help students establish a revision routine/timetable on the months before mock exams	<ul style="list-style-type: none">• Encourage students to frequently revisit topics covered last year and those covered earlier this term• Help students establish a revision routine/timetable on the months before the GCSEs commence	<ul style="list-style-type: none">• Encourage students into a healthy work/sleep routine in preparation for GCSEs