

Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
Topics Covered B1 Cell structure <u>Themes</u> Microscopes, animal and plant cells, eukaryotes and prokaryotes, specialized cells.	Topics Covered B1 Transport across membranes <u>Themes</u> Diffusion, osmosis and active transport.	Topics Covered B2 Principles of Organisation <u>Themes</u> Cell division, stem cells, tissues & organs and digestion.	Topics Covered B2 Principles of Organisation <u>Themes</u> Circulatory & respiratory systems and transport in plants.	Topics Covered B3 Infection and Response <u>Themes</u> Pathogens, diseases caused by pathogens, human defence responses.	Topics Covered B3 Infection and Response <u>Themes</u> Vaccination, antibiotics, cancer, smoking, alcohol and exercise.
<u>Assessment:</u> <i>Doddle assessments set as homework</i> <i>Short Cells end of topic assessment</i>	<u>Assessment:</u> <i>Whole Year Assessment covering Cell structure and Transport across membranes</i>	<u>Assessment:</u> <i>Doddle assessments set as homework</i> <i>Short Digestions end of topic assessment</i>	<u>Assessment:</u> <i>Doddle assessments set as homework</i> <i>Short Organ system and Transport in plants end of topic assessments</i>	<u>Assessment:</u> <i>Doddle assessments set as homework</i> <i>Short Communicable disease end of topic assessments</i>	<u>Assessment:</u> <i>Whole Year Assessment covering everything taught during Year 9</i>
<u>Skills:</u> Evaluate risks in an investigation Develop hypotheses	<u>Skills:</u> Drawing suitable conclusions	<u>Skills:</u> Interpreting graphs Develop hypotheses	<u>Skills:</u> Using models to develop scientific explanations	<u>Skills:</u> Variables Data analysis	<u>Skills:</u> Risk assessment Scientific explanations
<u>SMSC/British Values:</u> <i>How have microscopes improved our lives?</i>	<u>SMSC/British Values:</u>	<u>SMSC/British Values:</u> <i>Should stem cells be used to prolong life?</i>	<u>SMSC/British Values:</u> <i>Should every patient be given the opportunity for heart surgery?</i>	<u>SMSC/British Values:</u> <i>Are all micro-organisms bad for us?</i>	<u>SMSC/British Values:</u> <i>Opinions about the use of vaccines and other medicinal interventions</i>
Enrichment/Extra Curriculum: STEM café lectures National Science Week activities March 2019 Crest Award club					

Combined GCSE Biology at Cox Green 2018-2019
Key Stage 4 Curriculum Plan
Year 10

Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
Topics Covered B3 Infection, response and non-communicable diseases <u>Themes</u> Pathogens, diseases caused by pathogens, human defence responses, vaccination, antibiotics, cancer, smoking, alcohol and exercise.	Topics Covered B4 Bioenergetics <u>Themes</u> Photosynthesis, factors affecting the rate of photosynthesis, the use of glucose, aerobic respiration and anaerobic respiration.	Topics Covered B5 Homeostasis and Response <u>Themes</u> Nervous system, control of blood sugar, diabetes, human reproduction, menstrual cycle and controlling fertility.	Topics Covered B6 Inheritance, Variation and Evolution <u>Themes</u> Reproduction, meiosis, inheritance and inherited disorders.	Topics Covered B6 Inheritance, Variation and Evolution <u>Themes</u> Variation, evolution by Natural selection, selective breeding, genetic engineering, evidence for evolution and antibiotic resistance.	Topics Covered B7 Ecology <u>Themes</u> Measuring distribution & abundance of organisms, adaptation, competition, material cycles and pollution and its consequences.
<u>Assessment:</u> Doodle assessments set as homework Short Communicable diseases end of topic assessment	<u>Assessment:</u> Whole Year Group Assessment of the B3 and B4 topics	<u>Assessment:</u> Doodle assessments set as homework Short B5 end of topic assessment	<u>Assessment:</u> Doodle assessments set as homework Short Reproduction and inheritance end of topic assessments	<u>Assessment:</u> Doodle assessments set as homework Short Variation and evolution end of topic assessments	<u>Assessment:</u> Whole Year Assessment covering everything taught during Year 9 & Year 10
<u>Skills:</u> Evaluate risks in an investigation Develop hypotheses	<u>Skills:</u> Drawing graphs Evaluating scientific methods	<u>Skills:</u> Variables Risk assessment	<u>Skills:</u> Using models to develop scientific explanations	<u>Skills:</u> Interpreting graphs Scientific explanations	<u>Skills:</u> Evaluating scientific methods Data analysis
<u>SMSC/British Values:</u> <i>Ethics surrounding the advertisement of products which have an adverse effect on people's health</i>	<u>SMSC/British Values:</u> <i>What are the benefits and costs of artificially increasing the rate of photosynthesis?</i>	<u>SMSC/British Values:</u> <i>The different opinions about artificially controlling fertility</i>	<u>SMSC/British Values:</u> <i>The ethical implications of screening for genetic disorders</i>	<u>SMSC/British Values:</u> <i>Ethics of genetic engineering and the use of antibiotics</i>	<u>SMSC/British Values:</u> <i>International disasters and global problems that arise. Whose fault is it?</i>
Enrichment/Extra Curriculum: STEM café lectures National Science Week activities March 2019 Crest Award club					

Combined GCSE Biology at Cox Green 2018-2019
Key Stage 4 Curriculum Plan
Year 11

Term 1	Term 2	Term 3	Term 4	Term 5
<p>Topics Covered B3 Non-communicable diseases & B1 Transport in plants</p> <p><u>Themes</u> Cancer, smoking, alcohol & exercise, tissues & organs of plants, transport in plants, evaporation and transpiration and factors affecting transpiration.</p>	<p>Topics Covered Paper 1 revision</p> <p><u>Themes</u> B1 Cell structure, transport and division B2 Organisation in organisms and organ systems.</p>	<p>Topics Covered Paper 1 & Paper 2 revision</p> <p><u>Themes</u> B3 Diseases, immune system and medicinal drugs B4 Photosynthesis and respiration B5 Homeostasis and the nervous system.</p>	<p>Topics Covered Paper 2 revision</p> <p><u>Themes</u> B5 Hormones and hormonal control B6 Reproduction, inheritance, natural selection and evidence for evolution. B7 Measuring organisms numbers, material cycles and pollution.</p>	<p>Topics Covered Paper 1 preparation</p> <p><u>Themes</u> All of the topics covered in B1, B2, B3 and B4 combined science units.</p>
<p><u>Assessment:</u> Doddle assessments set as homework Short Non-communicable diseases and Plant transport end of topic assessments</p>	<p><u>Assessment:</u> Doddle assessments set as homework GCSE Combined Science Paper 1 Mock</p>	<p><u>Assessment:</u> Doddle assessments set as homework Practice exam papers – Paper 1</p>	<p><u>Assessment:</u> Doddle assessments set as homework Practice exam papers – Paper 2</p>	<p><u>Assessment:</u> Doddle assessments set as homework Practice exam papers – Paper 1 & 2</p>
<p><u>Skills:</u> Interpreting graphs Scientific explanations</p>	<p><u>Skills:</u> Risk assessment Data analysis</p>	<p><u>Skills:</u> Drawing graphs Evaluating scientific methods Variables</p>	<p><u>Skills:</u> Evaluate risks in an investigation Develop hypotheses</p>	<p><u>Skills:</u> Using models to develop scientific explanations Drawing suitable conclusions</p>
<p><u>SMSC/British Values:</u> Ethics surrounding the advertisement of products which have an adverse effect on people's health</p>	<p><u>SMSC/British Values:</u> Should every patient be given the opportunity for heart surgery?</p>	<p><u>SMSC/British Values:</u> Opinions about the use of vaccines and other medicinal interventions</p>	<p><u>SMSC/British Values:</u> Study of evolution and discussing the different ideas put forward for the origin of life.</p>	<p><u>SMSC/British Values:</u> What are the benefits and costs of artificially increasing the rate of photosynthesis?</p>
<p>Enrichment/Extra Curriculum: STEM café lectures National Science Week activities March 2019 Crest Award club</p>				

Separate GCSE Biology at Cox Green 2018-2019
Key Stage 4 Curriculum Plan
Year 11

Term 1	Term 2	Term 3	Term 4	Term 5
<p>Topics Covered B1 Transport in plants, B3 Plant diseases & B5 Plant hormones</p> <p><u>Themes</u> Tissues and organs of plants, transport in plants, plant diseases and plant hormones & their uses.</p>	<p>Topics Covered B3 Bacterial growth and monoclonal antibodies & B5 The brain and eye</p> <p><u>Themes</u> Growing bacteria, making & using monoclonal antibodies, the brain, the eye and common problems.</p>	<p>Topics Covered B5 Body temperature and the kidney & B6 Gene expression & mutation</p> <p><u>Themes</u> Control of body temperature and water in the body. Reproduction in other organisms, DNA structure, gene expression & mutation.</p>	<p>Topics Covered B6 Cloning, history of genetics & evolution and speciation</p> <p><u>Themes</u> Adult cell cloning, history of genetics, theories of evolution and speciation</p>	<p>Topics Covered B7 Decomposition, biomass & its transfer, food security and production</p> <p><u>Themes</u> Decomposition rates, biomass & its transfer, factors affecting food security, making food production more efficient and sustainable food production</p>
<p><u>Assessment:</u> Doddle assessments set as homework Short Plants end of topic assessment</p>	<p><u>Assessment:</u> Doddle assessments set as homework GCSE Biology Paper 1 Mock</p>	<p><u>Assessment:</u> Doddle assessments set as homework Practice exam paper – Paper 2</p>	<p><u>Assessment:</u> Doddle assessments set as homework Practice exam paper – Paper 1</p>	<p><u>Assessment:</u> Doddle assessments set as homework Practice exam papers – Paper 1 & 2</p>
<p><u>Skills:</u> Interpreting graphs Scientific explanations</p>	<p><u>Skills:</u> Variables Risk assessment Data analysis</p>	<p><u>Skills:</u> Evaluating scientific methods Develop hypotheses</p>	<p><u>Skills:</u> Evaluate risks in an investigation Drawing graphs</p>	<p><u>Skills:</u> Using models to develop scientific explanations Drawing suitable conclusions</p>
<p><u>SMSC/British Values:</u> <i>Should the artificial use of plant hormones be used to increase the shelf life of fruits?</i></p>	<p><u>SMSC/British Values:</u> <i>Should bacteria be used to produce drugs and hormones for people who require them?</i></p>	<p><u>SMSC/British Values:</u> <i>Evaluating the use of dialysis machines against kidney transplants</i></p>	<p><u>SMSC/British Values:</u> <i>Ethics of cloning and genetic engineering.</i></p>	<p><u>SMSC/British Values:</u> <i>International disasters and global problems that arise. Whose fault is it?</i></p>
<p>Enrichment/Extra Curriculum: STEM café lectures National Science Week activities March 2019 Crest Award club</p>				

**Chemistry at Cox Green 2017-2018
Key Stage 4 Curriculum Plan - Year 9**

Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
Topics Covered C1 – Atomic structure C2 – Periodic Table	Topics Covered C2 – Periodic Table cont. C3 – Structure and bonding	Topics Covered C3 – Structure and bonding cont.	Topics Covered C4 – Chemical calculations	Topics Covered C5 – Chemical changes C6 - Electrolysis	Topics Covered C6 – Electrolysis C7 – Energy changes
<u>Assessment:</u> EoT Test – C1	<u>Assessment:</u> AP1 – C1 and C2	<u>Assessment:</u> EoT Test – C3	<u>Assessment:</u> EoT Test – C4	<u>Assessment:</u> EoT Test – C5	<u>Assessment:</u> AP3 – C1, C2, C3, C4, C5, and C6
<u>Skills:</u> Working scientifically – Development of Scientific thinking, Experimental skills and strategies, Scientific Language Apparatus and techniques – Purifying, Handling Mathematical skills – Arithmetic and numerical computation, Geometry and trigonometry	<u>Skills:</u> Working scientifically – Development of scientific thinking, Scientific language Apparatus and techniques - Handling Mathematical skills – Arithmetic and numerical computation, Handling data, Graphs, Geometry and trigonometry	<u>Skills:</u> Working scientifically – Development of scientific thinking, Scientific language Apparatus and techniques - Handling Mathematical skills – Arithmetic and numerical computation, Handling data, Graphs, Geometry and trigonometry	<u>Skills:</u> Working scientifically – Development of scientific thinking, Analysis and evaluation, Scientific language Apparatus and techniques – Measuring, Heating, Monitoring, Handling, Identifying Mathematical skills – Arithmetic and numerical computation, Handling data, Algebra,	<u>Skills:</u> PAG 1 PAG 3 Working scientifically – Development of scientific thinking, Apparatus and techniques – Heating, Monitoring, Purifying, Handling, Separating, Identifying Mathematical skills -	<u>Skills:</u> PAG 4 Working scientifically – Development of scientific thinking Apparatus and techniques – Measuring, Monitoring, Observing, Handling, Separating, Identifying Mathematical skills – Arithmetic and numerical computation
<u>SMSC/British Values:</u> Historical rationale/development of Atomic structure	<u>SMSC/British Values:</u> Historical rationale/development of Periodic table	<u>SMSC/British Values:</u> Ethics of using nanotechnology	<u>SMSC/British Values:</u> Why is it important that we maximize yield?	<u>SMSC/British Values:</u> Why is recycling aluminium so important?	<u>SMSC/British Values:</u> How can chemistry be used in every day life?
Enrichment/Extra Curriculum: <i>STEM café lectures, National Science Week activities March 2019, Crest Award club</i>					

Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
Topics Covered C8 – Rates and equilibrium	Topics Covered C8 – Rates and equilibrium cont. C9 – Crude oil and fuels	Topics Covered C9 - Crude oil and fuels cont. C13 – Earth’s Atmosphere	Topics Covered C13 – Earth’s Atmosphere cont. C14 – Earth’s resources	Topics Covered C14 – Earth’s resources cont. C12 – Chemical analysis	Topics Covered C12 – Chemical Analysis cont
<u>Assessment:</u>	<u>Assessment:</u> AP1 – Combined Award Paper 1 EoT Test – C8	<u>Assessment:</u> EoT Test – C9	<u>Assessment:</u> EoT Test – C13	<u>Assessment:</u> EoT Test – C14	<u>Assessment:</u> AP3 – Combined Award Paper 2
<u>Skills:</u> PAG 5 Working scientifically – Development of scientific thinking, Scientific language Apparatus and techniques – Measuring, Monitoring, Observing, Handling Mathematical skills – Arithmetic and numerical computation, Graphs, Geometry and Trigonometry	<u>Skills:</u> Working scientifically – Development of scientific thinking, Scientific language Apparatus and techniques – Measuring, Monitoring, Observing, Handling Mathematical skills – Arithmetic and numerical computation, Graphs, Geometry and Trigonometry	<u>Skills:</u> Working scientifically – Development of scientific thinking, Analysis and evaluation, Scientific language Apparatus and techniques – Mathematical skills – Arithmetic and numerical computation	<u>Skills:</u> PAG 8 Working scientifically – Development of scientific thinking, Analysis and evaluation, Scientific language Apparatus and techniques – Heating, Monitoring, Observing Mathematical skills – Arithmetic and numerical computation, Handling data, Graphs	<u>Skills:</u> Working scientifically – Development of scientific thinking, Experimental skills and strategies, Analysis and evaluation, Scientific language Apparatus and techniques – Measuring, Heating, Monitoring, Purifying, Identifying Mathematical skills – Arithmetic and numerical computation, Handling data, Graphs	<u>Skills:</u> PAG 6 Working scientifically – Development of scientific thinking, Experimental skills and strategies, Analysis and evaluation, Scientific language Apparatus and techniques – Measuring, Purifying, Identifying Mathematical skills – Arithmetic and numerical computation, Handling data, Graphs
<u>SMSC/British Values:</u> Compromise of rate vs yield, environmental implications	<u>SMSC/British Values:</u> Should we still be using fossil fuels?	<u>SMSC/British Values:</u> Is climate change real?	<u>SMSC/British Values:</u> Why should we recycle?	<u>SMSC/British Values:</u> How can we conserve our resources?	<u>SMSC/British Values:</u> How can science be used in court?
Enrichment/Extra Curriculum: <i>STEM café lectures, National Science Week activities March 2019, Crest Award club</i>					

Chemistry at Cox Green 2017-2018
Key Stage 4 Curriculum Plan - Year 11

Term 1	Term 2	Term 3	Term 4	Term 5
Topics Covered Revision – C1, C2, and C3 TRIPLE ONLY – C12 cont. TRIPLE ONLY – C4 Chemical calculations cont.	Topics Covered Revision - C5, C6, and C7 TRIPLE ONLY – C10 Organic reactions	Topics Covered Revision – C8 and C9 TRIPLE ONLY – C11 Polymers	Topics Covered Revision – C12, C13, and C14 TRIPLE ONLY – C15 Using resources	Topics Covered Therapy and Revision
<u>Assessment:</u> TRIPLE ONLY - EoT Test – C12 and C4 (combined)	<u>Assessment:</u> AP1 – Combined Award Paper 1 TRIPLE ONLY – Chemistry Paper 1	<u>Assessment:</u> TRIPLE ONLY - EoT Test – C11	<u>Assessment: (Easter hols)</u> AP3 – Combined Award Papers 1 and 2 TRIPLE ONLY – Chemistry Paper 1 and 2	<u>Assessment:</u>
<u>Skills:</u> TRIPLE ONLY – PAG 2 and 7 Working scientifically – Development of scientific thinking, Experimental skills and strategies, Analysis and evaluation, Scientific language Apparatus and techniques – Measuring, Heating, Purifying, Handling, Identifying Mathematical skills – Arithmetic and numerical computation, Handling data, Algebra, Graphs	<u>Skills:</u> Working scientifically – Development of scientific thinking Apparatus and techniques – Heating, Observing, Handling Mathematical skills – Geometry and trigonometry	<u>Skills:</u> Working scientifically – Development of scientific thinking Apparatus and techniques – Mathematical skills – Geometry and trigonometry	<u>Skills:</u> Working scientifically – Development of scientific thinking, Experimental skills and strategies, Analysis and evaluation Apparatus and techniques – Purifying Mathematical skills – Arithmetic and numerical computation	<u>Skills:</u>
<u>SMSC/British Values:</u> How can we maximize yield?	<u>SMSC/British Values:</u> How should we make ethanol?	<u>SMSC/British Values:</u> Can we make plastics biodegradable?	<u>SMSC/British Values:</u> How has war driven scientific development?	<u>SMSC/British Values:</u>
Enrichment/Extra Curriculum: <i>STEM café lectures, National Science Week activities March 2019, Crest Award club</i>				

**Science (Physics) at Cox Green 2018-2019
Key Stage 4 Curriculum Plan - Year 9**

Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
P2 Energy Transfer	P3 Energy Resources	P7 Atomic Structure	P6 Particle Model of Matter	P12 Waves	P9 Motion
<u>Assessment:</u> 30 min Energy Transfer Exam Style Assessment	<u>Assessment:</u> Whole school assessment on Energy Transfer & Energy Resources	<u>Assessment:</u> 30 min Atomic structure Exam Style Assessment	<u>Assessment:</u> 30 min Practical skills (SHC and density) Assessment 30 min Particle Model of matter Exam Style Assessment	<u>Assessment:</u> 30 min Waves Exam Style Assessment	<u>Assessment:</u> Whole school assessment on Energy Transfer & Energy Resources, Particle Model of Matter and Atomic Structure
<u>Skills:</u> WS – Experimental skills and strategies, Analysis and evaluation, Scientific vocabulary AT – Use apparatus to make/ record a range of measurements accurately, Safe use of apparatus in a range of contexts to measure energy changes and associated values MS – Arithmetic and numerical computation, Handling data, Algebra, Graphs	<u>Skills:</u> WS – Development of scientific thinking, Scientific vocabulary MS – Arithmetic and numerical computation, Handling data, Graphs	<u>Skills:</u> WS – Development of scientific thinking, Scientific vocabulary MS – Arithmetic and numerical computation, Handling data, Algebra, Graphs	<u>Skills:</u> WS – Development of scientific thinking, Experimental skills and strategies, Analysis and evaluation, Scientific vocabulary AT – Use apparatus to make/ record a range of measurements accurately MS – Arithmetic and numerical computation, Algebra, Graphs, Geometry and trigonometry	<u>Skills:</u> WS – Development of scientific thinking, Experimental skills and strategies, Analysis and evaluation, Scientific vocabulary AT – Make observations of waves in fluids and solids to identify the suitability of apparatus to measure speed/frequency/wavelength MS - Arithmetic and numerical computation, Algebra, Graphs, Geometry and trigonometry	<u>Skills:</u> MS – Arithmetic and numerical computation, Algebra, Graphs
<u>SMSC/British Values:</u> Cultural – We take heating for granted, but what about other countries? FBV1	<u>SMSC/British Values:</u> Moral – Responsibilities to balance lifestyle and attitudes to recycling, carbon emissions. FBV1,2,3. Social – Electricity vs potential risk of nuclear disaster – is it worth it? Which type of power station is most efficient? FBV1,2	<u>SMSC/British Values:</u> Social – Dangers and uses of nuclear radiation. FBV2	<u>SMSC/British Values:</u> Spiritual – Conservation of Mass – What happens to the particles that “disappear”?	<u>SMSC/British Values:</u> Social – Consideration of those that are visually/hearing impaired. FBV1,2	<u>SMSC/British Values:</u> Cultural – Why are motion graphs important in the car industry?
Enrichment/Extra Curriculum: STEM café lectures National Science Week activities March 2019					



Science (Physics) at Cox Green 2018-2019
Key Stage 4 Curriculum Plan - Year 10

Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
P1 Energy Conservation & Dissipation	P4 Electrical Circuits	P4 Electrical Circuits and P5 Electricity in the Home	P5 Electricity in the Home	P8 Forces in Balance	P13 EM Waves
Assessment: 30 min Energy Conservation & Dissipation Exam Style Assessment	Assessment: Whole school assessment on P1,P2,P3,P6,P7,P12	Assessment: 30 min Electrical Circuits Exam Style Assessment	Assessment: 30 min Electricity in the Home Exam Style Assessment	Assessment: 30 min Forces in Balance Exam Style Assessment	Assessment: Whole school assessment – Paper 1 Mock
Skills: WS – Development of scientific thinking MS – Arithmetic and numerical computation, Handling data, Algebra, Graphs	Skills: WS – Development of scientific thinking, Experimental skills and strategies, Analysis and evaluation, Scientific vocabulary AT – Use apparatus to make/ record a range of measurements accurately, Use apparatus to measure current/ potential difference/ resistance, Use circuit diagrams to construct series/ parallel circuits MS – Arithmetic and numerical computation, Algebra, Graphs	Skills: WS – Development of scientific thinking, Experimental skills and strategies, Analysis and evaluation, Scientific vocabulary AT – Use apparatus to make/ record a range of measurements accurately, Use apparatus to measure current/ potential difference/ resistance, Use apparatus to explore the characteristics of a variety of circuit elements MS – Arithmetic and numerical computation, Algebra, Graphs	Skills: WS – Development of scientific thinking MS – Algebra, Graphs	Skills: WS – Development of scientific thinking MS – Arithmetic and numerical computation, Handling data, Algebra, Geometry and trigonometry	Skills: WS – Development of scientific thinking MS – Arithmetic and numerical computation, Algebra
SMSC/British Values: Cultural – Why is there energy conservation, what does this mean for nature? FBV1	SMSC/British Values: Social – Electrical safety, implementing safe practice	SMSC/British Values: Spiritual - Electrical safety, respect for power of nature	SMSC/British Values: Social – Electrical safety in the home, awareness of others. Which type of light bulb costs least to use? FBV2	SMSC/British Values: Spiritual – Why are forces balanced?	SMSC/British Values: Moral – Responsibilities for social networking. Should rich countries support infrastructure in poorer countries? FBV1,2,3. Social – Dangers and uses of different EM radiation. FBV2
Enrichment/Extra Curriculum: STEM café lectures					

National Science Week activities March 2019
 Crest Award club
 British Physics Olympiad



Science (Physics) at Cox Green 2018-2019 Key Stage 4 Curriculum Plan - Year 11 – Double

Term 1	Term 2	Term 3	Term 4	Term 5
P13 EM Waves, P8 Forces in Balance, P10 Forces and Motion	P15 Electromagnetism	Paper 1 Revision	Paper 2 Revision	Paper 1 and Paper 2 Revision
<u>Assessment:</u> P8, P9, P10, P12 and P13 Paper 2 Exam Style Exam Assessment	<u>Assessment:</u> 30 min Electromagnetism Exam Style Assessment Whole School Assessment - Paper 2 Mock	<u>Assessment:</u> Paper 1 Mock	<u>Assessment:</u> Paper 2 Mock	<u>Assessment:</u>
<u>Skills:</u> WS – Development of scientific thinking, Experimental skills and strategies, Analysis and evaluation, Scientific vocabulary AT – Use apparatus to make/record a range of measurements accurately, Use apparatus to measure and observe the effects of forces, Use AT for measuring motion MS – Arithmetic and numerical computation, Handling Data, Algebra, Graphs, Geometry and trigonometry	<u>Skills:</u> WS – Development of scientific thinking MS – Arithmetic and numerical computation, Handling Data, Algebra, Graphs	<u>Skills:</u>	<u>Skills:</u>	<u>Skills:</u>
<u>SMSC/British Values:</u> Social – Dangers and uses of different EM radiation. FBV2 Spiritual – What are forces balanced? Social – Car safety. FBV2	<u>SMSC/British Values:</u> Spiritual – How does magnetism work? Why is it limited to certain materials?	<u>SMSC/British Values:</u>	<u>SMSC/British Values:</u>	<u>SMSC/British Values:</u>
Enrichment/Extra Curriculum: STEM café lectures National Science Week activities March 2019 Crest Award club				

**Science (Physics) at Cox Green 2018-2019
Key Stage 4 Curriculum Plan - Year 11 Triple**

Term 1	Term 2	Term 3	Term 4	Term 5
P13 EM Waves, P8 Forces in Balance, P10 Forces and Motion	P15 Electromagnetism	P15 Electromagnetism, P8 Forces in Balance, P11 Forces and Pressure	P7 Atomic Structure, P16 Space, P12 Waves Physics, P14 Light	Paper 1 Revision
<u>Assessment:</u> P8, P9, P10, P12 and P13 Paper 2 Exam Style Assessment	<u>Assessment:</u> 30 min Electromagnetism Exam Style Assessment Whole School Assessment - Paper 2 Mock	<u>Assessment:</u> 30min Forces Exam Style Assessment	<u>Assessment:</u> 30 min Atomic Structure Exam Style Assessment 30 min Space Exam Style Assessment 30 min Waves Exam Style Assessment	<u>Assessment:</u> Paper 1 Mock
<u>Skills:</u> WS – Development of scientific thinking, Experimental skills and strategies, Analysis and evaluation, Scientific vocabulary AT – Use apparatus to make/record a range of measurements accurately, Use apparatus to measure and observe the effects of forces, Use AT for measuring motion MS – Arithmetic and numerical computation, Handling Data, Algebra, Graphs, Geometry and trigonometry	<u>Skills:</u> WS – Development of scientific thinking MS – Arithmetic and numerical computation, Handling Data, Algebra, Graphs	<u>Skills:</u> WS – Development of scientific thinking MS – Arithmetic and numerical computation, Handling Data, Algebra, Graphs, Geometry and trigonometry	<u>Skills:</u> WS – Development of scientific thinking, Experimental skills and strategies, Analysis and evaluation, Scientific vocabulary MS – Arithmetic and numerical computation, Handling Data, Algebra, Graphs, Geometry and trigonometry	<u>Skills:</u>
<u>SMSC/British Values:</u> Social – Dangers and uses of different EM radiation. FBV2 Spiritual – Why are forces balanced? Social – Car safety. FBV2	<u>SMSC/British Values:</u> Spiritual – How does magnetism work? Why is it limited to certain materials?	<u>SMSC/British Values:</u> Spiritual – What are the limits to deep sea diving and living at altitude?	<u>SMSC/British Values:</u> Moral – Nuclear power as a weapon. Should we test bombs? Spiritual– Understanding of our place in the Universe. FBV 1,4. Moral & Social - Should we spend money on space when there is so many people in poverty? FBV1	<u>SMSC/British Values:</u>
Enrichment/Extra Curriculum:				

BRITISH VALUES:

1. democracy.
2. the rule of law.
3. individual liberty.
4. mutual respect for and tolerance of those with different faiths and beliefs and for those without faith.