



	Autumn 1		Autumn 2		Spring 1		Spring 2		Summer 1		Summer 2	
Reporting Y10	CfCs		BfL & Grades		CfCs		BfL & Grades			BfL & Report		
Route A Y10 Combined Teacher 1 (Teaching Biology and Chemistry) 10P1, 10Q2 & 10Q3	C3 - Structure and Bonding. This unit covers ionic, covalent and metallic bonding. Students will also research the different allotropes of carbon. Assessment - C3 end of unit test and feedback.	B1 & B2 Cell Structure and Division. Students will investigate cells under a microscope and the movement of substances in and out of a cell. The module will then move onto cell division and stem cell ethics. Required Practical 1: Using a light microscope. Required Practical 2: Investigate the effect of a range of concentrations of salt or sugar solutions on the mass of plant tissue. Assessment - B1&2 end of unit test and feedback.	C4 & C5 - Chemical calculations and changes. Students will develop the skills required to calculate formula masses, moles (HT only) and concentration. The module will then move onto applying the reactivity series to displacement reactions. Required Practical 8: Prepare a salt from an insoluble metal carbonate or oxide. Assessment - C4 & 5 end of unit test and feedback.	B3 & B4 Organisation of animals and plants. This unit investigates animal organisation in terms of the digestive system, enzymes and the heart. The unit then moves onto plant organisation by investigating transpiration in plants. Required Practical 4: Investigate the effect of pH on the rate of reaction of amylase enzyme. Assessment - B3&4 end of unit test and feedback.	C6 & C7 - Electrolysis & Energy Change. Students will be able to predict products from liquid or aqueous electrolytes.	Paper 1 Required Practical revision and end of Year 10 exam.	C6 & C7 Continued: Required Practical 9: Investigate the electrolysis of a solution. They will then investigate exothermic and endothermic reactions and be able to interpret reaction profiles. Required Practical 10: Investigating temperature changes in reacting solutions. Assessment - C6&7 end of unit test and feedback.	B8 & B9 - Photosynthesis and Respiration. Students investigate the factors that effect the rate of photosynthesis. The module moves onto aerobic respiration and exercise, then anaerobic respiration in animals and other organisms. Required Practical 5: Investigate the effect of light intensity on the rate of photosynthesis. Assessment - B8&9 end of unit test and feedback.	Work Experience Week			
Route A Y10 Combined Teacher 2 (Teaching Physics) 10P1, 10Q2 & 10Q3	P6 & P7 - Molecules, Matter and Radioactivity. This module covers energy in terms of changes of state and latent heat. Students compare alpha, beta and gamma radiation and predict half life from a graph. Required Practical 17: Calculating densities. Assessment - P6&7 end of unit test and feedback.		P1 & P2 - Energy: Conservation, Dissipation and transfer. Students calculate energy changes and efficiency as well as investigating heating and insulating buildings. Required Practical 14: Determining specific heat capacity. Assessment - P1 & 2 end of unit test and feedback.		P4 & P5 Electricity: Circuits and the Home. Students investigate series and parallel circuits in terms of current, potential difference and resistance. The module then moves onto electricity in the home and the efficiency of common appliances. Required Practical 15: Investigating resistance. Required Practical 16: Investigating electrical components. Assessment - P4 & 5 end of unit test and feedback.		Paper 1 Required Practical revision and end of Year 10 exam.	P4 & P5 Electricity Continued	PAPER 2 - P8 & P9 - Forces in balance, and motion. In this unit students compare scalar to vectors and calculate resultant forces. This module also investigates how to interpret motion graphs. This unit will continue into Year 11.	Work Experience Week		
Route B Y10 Combined Teacher 1 (Teaching Chemistry and Physics) 10P2, 10P3, 10P4, 10Q1 & 10Q4	P6 & P7 - Molecules, Matter and Radioactivity. This module covers energy in terms of changes of state and latent heat. Students compare alpha, beta and gamma radiation and predict half life from a graph. Required Practical 17: Calculating densities. Assessment - P6&7 end of unit test and feedback.	C3 - Structure and Bonding. This unit covers ionic, covalent and metallic bonding. Students will also research the different allotropes of carbon. Assessment - C3 end of unit test and feedback.	P1 & P2 - Energy: Conservation, Dissipation and transfer. Students calculate energy changes and efficiency as well as investigating heating and insulating buildings. Required Practical 14: Determining specific heat capacity. Assessment - P1 & 2 end of unit test and feedback.	C4 & C5 - Chemical calculations and changes. Students will develop the skills required to calculate formula masses, moles (HT only) and concentration. The module will then move onto applying the reactivity series to displacement reactions. Required Practical 8: Prepare a salt from an insoluble metal carbonate or oxide. Assessment - C4 & 5 end of unit test and feedback.	P4 & P5 Electricity: Circuits and the Home. Students investigate series and parallel circuits in terms of current, potential difference and resistance. The module then moves onto electricity in the home and the efficiency of common appliances. Required Practical 15: Investigating resistance. Required Practical 16: Investigating electrical components.	Paper 1 Required Practical revision and end of Year 10 exam.	P4 & P5 Electricity: Continued - Assessment - P4 & 5 end of unit test and feedback.	C6 & C7 - Electrolysis & Energy Change. Students will be able to predict products from liquid or aqueous electrolytes. Required Practical 9: Investigate the electrolysis of a solution. They will then investigate exothermic and endothermic reactions and be able to interpret reaction profiles. Required Practical 10: Investigating temperature changes in reacting solutions. Assessment - C6&7 end of unit test and feedback.	Work Experience Week			
Route B Y10 Combined Teacher 1 (Teaching Biology) 10P2, 10P3, 10P4, 10Q1 & 10Q4	B1 & B2 Cell Structure and Division. Students will investigate cells under a microscope and the movement of substances in and out of a cell. The module will then move onto cell division and stem cell ethics. Required Practical 1: Using a light microscope. Required Practical 2: Investigate the effect of a range of concentrations of salt or sugar solutions on the mass of plant tissue. Assessment - B1&2 end of unit test and feedback.		B3 & B4 Organisation of animals and plants. This unit investigates animal organisation in terms of the digestive system, enzymes and the heart. The unit then moves onto plant organisation by investigating transpiration in plants. Required Practical 4: Investigate the effect of pH on the rate of reaction of amylase enzyme. Assessment - B3&4 end of unit test and feedback.		B8 & B9 - Photosynthesis and Respiration. Students investigate the factors that effect the rate of photosynthesis. The module moves onto aerobic respiration and exercise, then anaerobic respiration in animals and other organisms. Required Practical 5: Investigate the effect of light intensity on the rate of photosynthesis. Assessment - B8&9 end of unit test and feedback.		Paper 1 Required Practical revision and end of Year 10 exam.	B10 & B11 - The nervous system and hormonal control. This unit considers how the nervous and hormonal system cause responses within the body. Required Practical 6: Investigate the effect of a factor on human reaction time. This unit will continue into Year 11.	Work Experience Week			

Y10 Triple Biology	<p>B1 & B2 Cell Structure and Division. Students will investigate cells under a microscope, and the movement of substances in and out of a cell. The module will then move onto cell division and the ethics of stem cells. Required Practical 1: Using a light microscope. Required Practical 3: Investigate the effect of a range of concentrations of salt or sugar solutions on the mass of plant tissue. Assessment - B1&2 end of unit test and feedback.</p>	<p>B3 & B4 (+ Triple B5&6) Organisation of animals and plants. This unit investigates animal organisation in terms of the digestive system, enzymes and the heart. The unit then moves onto plant organisation by investigating transpiration in plants. Required Practical 5: Investigate the effect of pH on the rate of reaction of amylase enzyme. Required Practical 2: Investigate the effect of antiseptics or antibiotics on bacterial growth. Assessment - B3&4 end of unit test and feedback.</p>	<p>B8 & B9 - Photosynthesis and Respiration. Students investigate the factors that effect the rate of photosynthesis. The module moves onto aerobic respiration and exercise, then anaerobic respiration in animals and other organisms. Required Practical 6: Investigate the effect of light intensity on the rate of photosynthesis. Assessment - B8&9 end of unit test and feedback.</p>	<p>PAPER 2: B10 & B11 The Nervous System and Hormonal Control. This module covers reflex actions, structure of the brain and the eye, and correcting problems with the eye. Students will then investigate how hormones effect the body in terms of blood-glucose control, puberty, fertility and fertility treatment. Required Practical 7: Investigate the effect of a factor on human reaction time. Required Practical 8: Investigate the effect of light or gravity on the growth of newly germinated seedlings. Assessment - B10&11 end of unit test and feedback.</p>	Paper 1 Required Practical revision and end of Year 10 exam.	<p>B10 & B11 continued</p>	<p>PAPER 2 - B12 -Homeostasis in Action. Students apply their understanding of homeostasis to temperature and water control. They will compare kidney transplants to dialysis machines. Assessment - B10&11 end of unit test and feedback.</p>	Work Experience Week	
Y10 Triple Chemistry	<p>C2 & 3 - Transition elements and Structure & Bonding. This unit covers the transition elements along with ionic, covalent and metallic bonding. Students will also investigate the use of nanotechnology. Assessment - C2 & 3 end of unit test and feedback.</p>	<p>C4 & C5 - Chemical calculations and changes. Students will develop the mathematical skills required to calculate formula masses, moles and concentration. They will carry out titration reactions and calculate yields. The module will then move onto applying the reactivity series to displacement reactions. Required Practical 1: Prepare a salt from an insoluble metal carbonate or oxide. Required Practical 2: Use titration to investigate reacting volumes. Assessment - C4 & 5 end of unit test and feedback.</p>	<p>C6 & C7 - Electrolysis and Energy Change. Students will be able to predict products from liquid or aqueous electrolytes. They will then investigate exothermic and endothermic reactions and be able to interpret reaction profiles. Required Practical 3: Investigate the electrolysis of a solution. Required Practical 4: Investigating temperature changes in reacting solutions. Assessment - C6&7 end of unit test and feedback.</p>	Paper 1 Required Practical revision and end of Year 10 exam.	<p>PAPER 2 - C8 & C9- Rates of reaction and crude oil and fuels. This unit applies collision theory to the rate of reactions, and covers the separation and use of hydrocarbons. Required Practical 5: Investigating the effect of concentration on rate of reaction. Assessment - C8 & C9 end of unit test and feedback.</p>	Work Experience Week			
Y10 Triple Physics	<p>P6 & P7 - Molecules, Matter and Radioactivity. This module covers energy in terms of changes of state and latent heat. Students compare alpha, beta and gamma radiation and predict half life from a graph. Finally, students will investigate nuclear fission, fusion and nuclear issues. Required Practical 5: Calculating densities. Assessment - P6&7 end of unit test and feedback.</p>	<p>P1 & P2 - Energy: Conservation, Dissipation and Transfer. Students calculate energy changes and efficiency as well as investigating heating and insulating buildings. Required Practical 1: Determining specific heat capacity. Required Practical 2: Investigating thermal insulators. Assessment - P1 & 2 end of unit test and feedback.</p>	<p>P4 & P5 Electricity: Circuits and the Home. Students investigate series and parallel circuits in terms of current, potential difference and resistance. The module then moves onto electricity in the home and efficiency of common appliances. Required Practical 3: Investigating resistance. Required Practical 4: Investigating electrical components. Assessment - P4 & 5 end of unit test and feedback.</p>	Paper 1 Required Practical revision and end of Year 10 exam.	<p>PAPER 2- P8 & P11 - Forces: Balance and Pressure. Students investigate resultant forces and moments. The module will also cover pressure on surfaces, in liquids and the atmosphere. Assessment - P6&7 end of unit test and feedback.</p>	Work Experience Week			

Reporting Y11	CfCs & Grades	Rep & Grades	CfCs & Grades	BFL & Grades					
Route A Y11 Combined Teacher 1 (Teaching Biology and Chemistry) 11P1, 11P4, 11P5, 11Q1, 11Q3 & 11Q5	C6 & C7 - Electrolysis & Energy Change. Students will be able to predict products from liquid or aqueous electrolytes. Required Practical 9: Investigate the electrolysis of a solution. They will then investigate exothermic and endothermic reactions and be able to interpret reaction profiles. Required Practical 10: Investigating temperature changes in reacting solutions. Assessment - C6&7 end of unit test and feedback.	C8 & C9- Rates of reaction and crude oil and fuels. This unit applies collision theory to the rate of reactions, and covers the separation and use of hydrocarbons. Required Practical 11: Investigating the effect of concentration on rate of reaction. Assessment - C8 & C9 end of unit test and feedback. (2 weeks of PPEs have been considered in the curriculum map)	B10 & B11 - The nervous system and hormonal control. This unit considers how the nervous and hormonal system cause responses within the body. Required Practical 6: Investigate the effect of a factor on human reaction time. Assessment - B10 & B11 end of unit test and feedback.	B12 - Reproduction. This unit covers how genes and genetic disorders are inherited with consideration of the ethics of screening embryos. Assessment - B12 end of unit test and feedback.	B13 & B14 - Variation, evolution and genetics. This unit covers evolution by natural selection and the evidence to support this theory. Global link - Antibiotic resistant bacteria. The students also discover how living classification systems have changed over time. Assessment - B13 & B14 end of unit test and feedback.	C10 & C12: Chemical Analysis & Earth Resources. This unit covers chromatography, testing for gases and water treatment. Required Practical 13: Purify and test water. Assessment - C10 & C12 end of unit test and feedback. Global links and DT links - Environmental impact of different	Paper 1 & 2 revision. Revision of Biology, Chemistry and Physics content following the guidance from the advance information.	Science exam window. Students will attend drop-down science revision sessions as listed in the Year 11 revision timetable.	
Route A Y11 Combined Teacher 2 (Teaching Physics) 11P1, 11P4, 11P5, 11Q1, 11Q3 & 11Q5	P4 & P5 Electricity: Circuits and the Home. Students investigate series and parallel circuits in terms of current, potential difference and resistance. The module then moves onto electricity in the home and efficiency of common appliances. Required Practical 3: Investigating resistance. Required Practical 4: Investigating electrical components. Assessment - P4 & 5 end of unit test and feedback.	P8 & P9 - Forces in balance, and motion. In this unit students compare scalar to vectors and calculate resultant forces. This module also investigates how to interpret motion graphs. Assessment - P8 & 9 end of unit test and feedback. (2 weeks of PPEs have been considered in the curriculum map).	Required Practical 12: Waves in a ripple tank; Required Practical 13: Investigating Infrared radiation.	P10 & P13 -Forces, motion and electromagnetism. This units considers forces in terms of braking and momentum, then moves onto electromagnetism and the motor effect. Required Practical 19: Investigating the relationship between force and acceleration. Assessment - P10 & 13 end of unit test and feedback. (2 weeks of PPEs have been considered in the curriculum map).	Paper 1 & 2 revision. Revision of Biology, Chemistry and Physics content following the guidance from the advance information.	Science exam window. Students will attend drop-down science revision sessions as listed in the Year 11 revision timetable.			
Route B Y11 Combined Teacher 1 (Teaching Chemistry and Physics) 11P2, 11P3, 11Q2 & 11Q5	P4 & P5 Electricity: Circuits and the Home. Students investigate series and parallel circuits in terms of current, potential difference and resistance. The module then moves onto electricity in the home and efficiency of common appliances. Required Practical 3: Investigating resistance. Required Practical 4: Investigating electrical components. Assessment - P4 & 5 end of unit test and feedback.	C6 & C7 - Electrolysis & Energy Change. Students will be able to predict products from liquid or aqueous electrolytes. Required Practical 9: Investigate the electrolysis of a solution. They will then investigate exothermic and endothermic reactions and be able to interpret reaction profiles. Required Practical 10: Investigating temperature changes in reacting solutions. Assessment - C6&7 end of unit test and feedback. (2 weeks of PPEs have been considered in the curriculum map).	P9 - Motion. In this unit students investigate how to interpret motion graphs. Assessment - P9 end of unit test and feedback.	Required Practical 12: Waves in a ripple tank; Required Practical 13: Investigating Infrared radiation.	C10 - Chemical Analysis. This unit covers chromatography and testing for gases. Assessment - C10 end of unit test and feedback.	C8 & C9- Rates of reaction and crude oil and fuels. This unit applies collision theory to the rate of reactions, and covers the separation and use of hydrocarbons. Required Practical 11: Investigating the effect of concentration on rate of reaction. Assessment - C8 & C9 end of unit test and feedback. (2 weeks of PPEs have been considered in the curriculum map)	P10 & P13 -Forces, motion and electromagnetism. This units considers forces in terms of braking and momentum, then moves onto electromagnetism and the motor effect. Required Practical 19: Investigating the relationship between force and acceleration. Assessment - P10 & 13 end of unit test and feedback.	Paper 1 & 2 revision. Revision of Biology, Chemistry and Physics content following the guidance from the advance information.	Science exam window. Students will attend drop-down science revision sessions as listed in the Year 11 revision timetable.

Route B Y11 Combined Teacher 2 (Teaching Biology) 11P2, 11P3, 11Q2 & 11Q5	B10 & B11 - The nervous system and hormonal control. This unit considers how the nervous and hormonal system cause responses within the body. Required Practical 6: Investigate the effect of a factor on human reaction time. Assessment - B10 & B11 end of unit test and feedback.	B12 - Reproduction. This unit covers how genes and genetic disorders are inherited with consideration of the ethics of screening embryos. Assessment - B12 end of unit test and feedback. (2 weeks of PPEs have been considered in the curriculum map)	B13 & B14 - Variation, evolution and genetics. This unit covers evolution by natural selection and the evidence to support this theory. Global link - Antibiotic resistant bacteria. The students also discover how living classification systems have changed over time. Assessment - B13 & B14 end of unit test and feedback. (2 weeks of PPEs have been considered in the curriculum map)	Paper 1 & 2 revision. Revision of Biology, Chemistry and Physics content following the guidance from the advance information.	Science exam window. Students will attend drop-down science revision sessions as listed in the Year 11 revision timetable.		
Y11 Triple Biology	B13 & 14 Reproduction, Variation and Evolution. This unit covers genetics and inherited disorders, followed by the role inheritance plays in evolution. Assessment - B13 & 14 end of unit test and feedback. (2 weeks of PPEs have been considered in the curriculum map)	B15 Genetics. Students research the contributions that Mendel, Darwin and Lamarck made towards advances in genetics. Students then look at how genetics can be used to classify animals and to develop evolutionary trees. Assessment will take place after the next unit.	B17 & B18 Cycling of Materials & Biodiversity. This unit covers the cycling of materials in terms of decay, carbon and water, then moves onto the role biodiversity and ecosystems. Required Practical 10: Investigating the effect of temperature on the rate of decay of fresh milk. Global links and geography links - human population explosion. Assessment B17 & 18 end of unit test and feedback. (2 weeks of PPEs have been considered in the curriculum map)	Paper 1 & 2 revision. Revision of Biology content following the guidance from the advance information.	Biology exam window. Students will attend drop-down Biology revision sessions as listed in the Year 11 revision timetable.		
Y11 Triple Chemistry	C8 & C9- Rates of reaction and crude oil and fuels. This unit applies collision theory to the rate of reactions, and covers the separation and use of hydrocarbons. Required Practical 5: Investigating the effect of concentration on rate of reaction. Assessment - C8 & C9 end of unit test and feedback. (2 weeks of PPEs have been considered in the curriculum map)	C10 & C11 Organic reactions and polymers. This unit covers alkenes, alcohols, esters and carboxylic acids, as well as the formation of polymers. Biology link - DNA polymer. Assessment - C10 & 11 end of unit test and feedback.	C12 Chemical analysis. Students will investigate how chemicals are analysed in terms of pure substances, mixtures, gases, chromatograms and positive and negative ions. Required Practical 7: Use chemical tests to identify unknown compounds. Assessment - C12 end of unit test and feedback.	C14 & C15 Earth resources and using our resources. Students will investigate how water is treated, and how life cycle assessments can be used to assess the environmental impact of different products. they will move onto the use of alloys and the Haber process. Global links and DT links - Environmental impact of different materials. Required Practical 8: Purify and test water. Assessment - C14 & 15 end of unit test and feedback.(2 weeks of PPEs have been considered in the curriculum map)	Paper 1 & 2 revision. Revision of Chemistry content following the guidance from the advance information.	Chemistry exam window. Students will attend drop-down Chemistry revision sessions as listed in the Year 11 revision timetable.	

<p>Y11 Triple Physics</p>	<p>P9 & P10 Motion graphs and Force and motion. This module investigates how to interpret motion graphs, and links motion to acceleration, braking and car safety features. Required Practical 7: Investigating the relationship between force and acceleration. Assessment - P9 & 10 end of unit test and feedback.</p>	<p>P12 & P14 Wave properties and light. Required Practical 8: Investigating plane waves in a ripple tank and waves in a solid. Required Practical 9 Investigating the reflection and refraction of light. Required Practical 10: Investigating infrared radiation. Assessment - P12 & 14 end of unit test and feedback.(2 weeks of PPEs have been considered in the curriculum map)</p>	<p>P15 Electromagnetism. This unit investigates the motor effect, generators and transformers. Assessment - P15 end of unit test and feedback.</p>	<p>P16 Space. Students discover evidence to support the structure of stars, planets, the solar system and expanding universe. Assessment - P16 end of unit test and feedback.(2 weeks of PPEs have been considered in the curriculum map)</p>	<p>Paper 1 & 2 revision. Revision of Physics content following the guidance from the advance information.</p>	<p>Physics exam window. Students will attend drop-down Physics revision sessions as listed in the Year 11 revision timetable.</p>	
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