

Year 7 Science		
Autumn	Spring	Summer
Autumn 1 Acids and Alkalis Cells Electricity Autumn 2 Energy Particle Model Muscles and bone	Spring 1 Atoms and Elements Sex and Reproduction Spring 2 Atoms and Elements Forces	Summer 1 Ecosystems Mixtures and Separation Spring 2 Space
Assessment and Exams		
End of Topic Tests for acids and alkalis, cells, electricity, energy, particle model and Muscles and bone.	End of Topic Tests for atoms and elements, Sex and reproduction, atoms and elements and forces. Exam on the topics done so far in the year 7 exam week, week beginning the 27th March.	End of Topic Tests for Ecosystems, mixtures and separation and Space

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Year 8 Science		
Autumn	Spring	Summer
Autumn 1 Plants and Reproduction Light Periodic Table Autumn 2 Unicellular Organisms Sound	Spring 1 Combustion Breathing and Respiration Spring 2 Fluids	Summer 1 Metals and their uses Food and Digestion Spring 2 Rock Cycle
Assessment and Exams		
End of topic tests for each of the above units approximately every 3 weeks. Exam on all the topics covered in Year 8 exam week, week beginning Monday 6 th February.		

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Year 9 Science		
Autumn	Spring	Summer
<p>9p1/r1 complete the topics in this order however 9p2/3 and 9r2/3 will complete all of the autumn topics by February half term and all of the spring topics by Summer.</p> <p>Autumn 1 Key Concepts in Biology- Microscopes, Enzymes, Cells and Osmosis Cells and Control and Genetics- Mitosis and Meiosis, Genetics, Inheritance and Variation</p> <p>Atomic Structure, the Periodic Table and methods of Separation - Subatomic Particles, Atoms and the Periodic Table, Separation methods, Changes of state</p> <p>Autumn 2 Conservation of Energy-Types of energy, efficiency, renewable and non-renewable energy</p> <p>Digestive system and organ systems – organs in digestion, enzymes, the respiratory system, blood, the heart, plant system and tissues.</p>	<p>Spring 1 Structure and Bonding – ionic, covalent and metallic bonds and properties, alloys. Calculations in Chemistry-Mass and empirical formulae and moles</p> <p>Spring 2 Electricity and Circuits</p> <p>Health, Disease and the Development of Medicines-Pathogens, Diseases and Spreading Diseases</p>	<p>Summer 1 Acids and Alkalis-Neutralisation, bases and salts Electrolytic Processes, Obtaining and using metals, reversible reactions and equilibria</p> <p>Summer 2 Core practical</p>

Assessment and Exams		
<p>End of topic tests after each unit (approximately every 3 weeks)</p> <p>Test on all topics done so far before Christmas for 9p1/r1 and 9p2/3 and 9r2/3 at February half term.</p> <p>Exam in the year 9 exam week.</p>		

Year 10 Science		
Autumn	Spring	Summer
<p>10r1/r2 and 10p1/p2 complete the topics in this order however 10p3/r3 will complete all of the autumn topics by February half term and all of the spring topics by Summer.</p> <p>Autumn 1</p> <p>Digestive system and organ systems – organs in digestion, enzymes, the respiratory system, blood, the heart, plant system and tissues.</p> <p>Plant structure and their Functions- Photosynthesis, transpiration and translocation.</p> <p>Structure and Bonding – ionic, covalent and metallic bonds and properties, alloys.</p> <p>Calculations in Chemistry-Mass and empirical formulae and moles</p>	<p>Spring 1</p> <p>Energy changes and rates of reaction</p> <p>Forces and their effects- Work and power and Vectors</p> <p>Motion and Forces and Motion-Velocity, Momentum and Forces</p> <p>Natural Selection and Genetic Modification- Evolution and Classification</p> <p>Spring 2</p> <p>Animal Coordination and control – the nervous system, reflex actions, synapses.</p>	<p>Summer 1</p> <p>Forces and motion – speed, velocity time graphs, speed distance time graphs.</p> <p>Animal Coordination, control and Homeostasis- Hormones, Menstrual Cycle and Diabetes</p> <p>Summer 2</p> <p>Chemical analysis – testing gases, noble gases, elements, compounds and mixtures.</p> <p>Core practicals</p>

<p>Autumn 2</p> <p>Changes of state – density, measuring density, properties of solids, liquids and gases.</p> <p>Radioactivity-Types of radiation, radioactive decay and uses of radiation.</p> <p>Non-communicable disease – diet, exercise, smoking, alcohol and cancer</p> <p>Respiration and photosynthesis – word equations, functions of both, how the body aids both.</p> <p>Acids and Alkalis-Neutralisation, bases and salts, electrolysis</p>	<p>Crude oil and polymers – hydrocarbons, fractional distillation, alkanes and alkenes, combustion, problems with combustion.</p>	
<p>Assessment and Exams</p>		
<p>End of topic tests after each unit (approximately every 2.5 weeks)</p> <p>Test on all topics done so far before Christmas for 10r1/2 and 10p1/2 and for 10r3/p3 at February half term.</p> <p>Mock Exam in Year 10 exam week.</p>		

Year 11 Science		
Autumn	Spring	Summer
<p>Autumn 1</p> <p>Structure and Bonding – ionic, covalent and metallic bonds and properties, alloys. Calculations in Chemistry-Mass and empirical formulae and moles</p> <p>Changes of state – density, measuring density, properties of solids, liquids and gases. Radioactivity-Types of radiation, radioactive decay and uses of radiation.</p> <p>Non communicable disease and the nervous system - diet, exercise, smoking, alcohol and cancer, the nervous system, reflex actions, synapses.</p> <p>Autumn 2</p> <p>Energy changes and rates of reaction</p> <p>Forces and motion – speed, velocity time graphs, speed distance time graphs. Motion and Forces and Motion-Velocity, Momentum and Forces</p> <p>Animal Coordination, control and Homeostasis- Hormones and Diabetes</p>	<p>Spring 1</p> <p>Crude oil and polymers – hydrocarbons, fractional distillation, alkanes and alkenes, combustion, problems with combustion.</p> <p>Waves and the electromagnetic Spectrum- refraction, reflection, em waves and wave calculations</p> <p>Reproduction – sex organs, sexual reproduction, Menstrual Cycle.</p> <p>Spring 2</p> <p>Earth’s atmosphere and resources – extracting metals, recycling, Earths atmosphere and structure of the Earth.</p> <p>Light and Space (triple)</p> <p>Natural Selection and Genetic Modification- Evolution and Classification</p>	<p>Revision then exams:</p> <p>B1 exam 15th May</p> <p>C1 exam 17th May</p> <p>P1 exam 23rd May</p> <p>B2 exam 11th June</p> <p>C2 13th June</p> <p>P2 15th June</p>

Assessment and Exams		
<p>End of topic test completed after each of the topics approximately every 2.5 weeks. Additional Mock exam for triple science students before Christmas and mock for the Triple Science Topics mid mark.</p> <p>Mock Exams in Year 11 exam week, week beginning 5th Feb.</p>		