

Science Curriculum Map



* please note that all topics are taught on rotation and therefore the specific order of delivery will change dependant on class.

Students will be able to access their rotation in their class team.

KS3 Science

Year		AUTUMN	SPRING	SUMMER
7	Knowledge and Skills	Topics covered: - Microscopy - Particle theory and states of matter - Forces 1	Topics covered: - Reproduction - Atoms, elements and compounds - Space	Topics covered: - Human body systems - Separation techniques - Sound Assessment window - Skills and practical work - Review of assessments
	Assessment	Marked tasks completed in class and marked by teacher. DIRT time given for students to improve work. Assessment 1 – Covers topics - Microscopy - Particle theory and states of matter - Forces 1 Covers skills - Drawing graphs - Filling in tables with scientific data - Biological drawings	Marked tasks completed in class and marked by teacher. DIRT time given for students to improve work.	Marked tasks completed in class and marked by teacher. DIRT time given for students to improve work. End of Year assessment Students will be assessed on all topics covered through the year along with the following skills - Planning an investigation - Identifying variables - Drawing graphs - Filling in tables with scientific data - Biological drawings
8	Knowledge and Skills	Topics covered: - Human respiratory system - Understanding chemical reactions - Energy transfers	Topics covered: - Classification and variation - Acids and bases - Forces 2	Topics covered: - Health and disease - Earth's resources - Electricity Assessment window - Skills and practical work - Review of assessments
	Assessment	Marked tasks completed in class and marked by teacher. DIRT time given for students to improve work. Assessment 1 – Covers two of the following topics depending on the class. Students will be informed which they will be tested in in due course. - Human respiratory system - Understanding chemical reactions - Energy transfers Covers skills - Drawing graphs - Filling in tables with scientific data - Biological drawings	Marked tasks completed in class and marked by teacher. DIRT time given for students to improve work.	Marked tasks completed in class and marked by teacher. DIRT time given for students to improve work. End of Year assessment Students will be assessed on all topics covered through Y7 and Y8 excluding Ecosystems. Along with the following skills - Planning an investigation - Identifying variables - Drawing graphs - Filling in tables with scientific data - Biological drawings

Year		AUTUMN	SPRING	SUMMER
9	Knowledge and Skills	Topics covered: - Nutrition in animals and plants - Materials - Forces 3	Topics covered: - Inheritance and evolution - Fuels - Light	Topics covered: - Importance of ecosystems - Chemistry 3 - Electricity, magnets, static Assessment window - Skills and practical work - Review of assessments
	Assessment	Marked tasks completed in class and marked by teacher. DIRT time given for students to improve work. Assessment 1 – Covers topics - Nutrition in animals and plants - Materials - Forces 3 Covers skills - Drawing graphs - Filling in tables with scientific data - Biological drawings	Marked tasks completed in class and marked by teacher. DIRT time given for students to improve work.	Marked tasks completed in class and marked by teacher. DIRT time given for students to improve work. End of Year assessment Students will be assessed on all topics covered through the year along with the following skills - Planning an investigation - Identifying variables - Drawing graphs - Filling in tables with scientific data - Biological drawings

KS4 Science



		AUTUMN 1	AUTUMN 2	SPRING 1	SPRING 2	SUMMER 1	SUMMER 2
10	Knowledge and Skills	Knowledge and skills covered in the following units: - CB5 Health, disease and the development of medicine - CC10 Electrolytic processes - CP6 Radioactivity	Knowledge and skills covered in the following units: - CB1 Key concepts in biology revision - CC5 -7 Bonding revision	Knowledge and skills covered in the following units: - CB6 Plant structure and their functions - CC13 Groups in the periodic table revision - CP9 Electricity and circuits	Knowledge and skills covered in the following units: - CC14 Rates of reaction - CC15 Energy changes in chemical reactions - CP10 Magnetism and the motor effect - CP11 Electromagnetic induction	Knowledge and skills covered in the following units: - CB9 Ecosystems and material cycles - CC16 Fuels - CC17 Earth and atmospheric science	- Revision of topics covered in Year 9 and Year 10 - Combined Science content will have been completed
Combined Science	Assessment	Marked tasks completed in class and marked by teacher. DIRT time given for students to improve work. Marked tasks have been developed to cover the key skills in the following topics: - CB5 Cardiovascular disease - CB5 Antibiotic resistance - CC9 Empirical formulae - CC9 Calculations involving masses - CC10 Electrolysis of brine - CP6 Half-life	PP1 Summative assessment - Three papers – one for each science - All Paper 1s - Each 60 marks - Each 1 hour and 10 minutes Units covered: - All units from Year 9 and Year 10 Autumn 1	Marked tasks completed in class and marked by teacher. DIRT time given for students to improve work. Marked tasks have been developed to cover the key skills in the following topics: CP9 Investigating resistance	Marked tasks completed in class and marked by teacher. DIRT time given for students to improve work. Marked tasks have been developed to cover the key skills in the following topics: - CC14 Rate of reactions - CP10 Magnetism and the motor effect - CP11 The national grid	Marked tasks completed in class and marked by teacher. DIRT time given for students to improve work. Marked tasks have been developed to cover the key skills in the following topics: - CB9 Sampling - CC16 Fractional distillation	PP2 Summative assessment - Three papers – one for each science - All Paper 2s - Each 60 marks - Each 1 hour and 10 minutes Units covered: - All units from Year 10 Spring 2 – Summer 2

KS4 Science



		AUTUMN 1	AUTUMN 2	SPRING 1	SPRING 2	SUMMER 1	SUMMER 2
10	Knowledge and Skills	Knowledge and skills covered in the following units: - CB5 Health, disease and the development of medicine - CC10 Electrolytic processes - CP6 Radioactivity	Knowledge and skills covered in the following units: - CB1 Key concepts in biology revision - CC5 -7 Bonding revision	Knowledge and skills covered in the following units: - SC13 - SC14 - SP2 - SP4 - SP5	Knowledge and skills covered in the following units: - SB1 - SB2 - SC15 - SC16	Knowledge and skills covered in the following units: - SB3 - SB4 - SP6 - SP7	Knowledge and skills covered in the following units: SB9
Separate Science	Assessment	Marked tasks completed in class and marked by teacher. DIRT time given for students to improve work. Marked tasks have been developed to cover the key skills in the following topics: - CB5 Cardiovascular disease - CB5 Antibiotic resistance - CC10 Electrolysis of brine - CP6 Half-life	PP1 Summative assessment - Three papers – one for each science - All Paper 1s - Each 60 marks - Each 1 hour and 10 minutes Units covered: - All units from Year 9 and Year 10 Autumn 1	Marked tasks completed in class and marked by teacher. DIRT time given for students to improve work. Marked tasks have been developed to cover the key skills in the following topics: - SC13 Electroplating - SC14 Calculations - SP4 Ultrasound calculations - SP6 Lenses	Marked tasks completed in class and marked by teacher. DIRT time given for students to improve work. Marked tasks have been developed to cover the key skills in the following topics: - SB2 The brain and the eye - SC15 Factors affecting equilibrium	Marked tasks completed in class and marked by teacher. DIRT time given for students to improve work. Marked tasks have been developed to cover the key skills in the following topics: - SB3 Protein synthesis - SB4 Tissue culture - SP6 Nuclear energy, fission and fusion - SP7 Origins of the universe	PP2 Summative assessment - Three papers – one for each science - All Paper 2s - Each 100 marks - Each 1 hour and 45 minutes Units covered: - All units from Year 10 Spring 2 – Summer 2



		AUTUMN 1	AUTUMN 2	SPRING 1	SPRING 2	SUMMER 1	SUMMER 2
11	Knowledge and Skills	Knowledge and skills covered in the following units: - CC1 States of matter - CC2 Methods of separating and - CC3 Atomic structure - CC4 The periodic table - CP1 Motion - CP3 Conservation of energy	Knowledge and skills covered in the following units: - CB3 Genetics - CB6 Plant structure and their functions - CB7 Animal coordination, control and homeostasis - CC16 Fuels - CC17 Earth and atmospheric science - CP9 Electricity and circuits	Knowledge and skills covered in the following units: - CB8 Exchange and transport in animals - CC13 Groups in the periodic table - CC14 Rates of reaction - CC15 Energy changes in chemical reactions - CP10 Magnetism and the motor effect - CP11 Electromagnetic induction - CP12 Particle Model - CP13 Forces and matter	Knowledge and skills covered in the following units: - CB2 Cells and control - CP6 Radioactivity - CC8 Acids and alkalis	Knowledge and skills covered in the following units: - CC9 Calculations involving masses - CC10 Electrolytic processes - CC11 Obtaining and using metals - CC12 Reversible reactions and equilibria GCSE examinations begin May 2025	Students will be sitting GCSE examinations
Combined Science	Assessment	Students will be expected to complete exam questions every lesson (where possible)	Students will be expected to complete exam questions every lesson (where possible) Mock 1 - Three papers – one for each science - All Paper 1s - Each 60 marks - Each 1 hour and 10 minutes Units covered: - All units from Year 9 and Year 10 Autumn 1 and Year 11 Autumn 1 – 2	Students will be expected to complete exam questions every lesson (where possible)	Students will be expected to complete exam questions every lesson (where possible) Mock 2 - Three papers – one for each science - All Paper 2s - Each 60 marks - Each 1 hour and 10 minutes Units covered: - All units from Year 10 Autumn 2 – Summer 2 and Year 11 Spring 1 – 2	External GCSE Examinations	External GCSE Examinations

KS4 Science



* Please note, students will cover the separate science topics only this year, however they will be examined on all content taught in Year 9 and 10.

		AUTUMN 1	AUTUMN 2	SPRING 1	SPRING 2	SUMMER 1	SUMMER 2
11	Knowledge and Skills	Knowledge and skills covered in the following units: - SB1 Key concepts in biology - SB2 Cells and control - SB3 Genetics - SB4 Natural selection and genetic modification - SB5 Health, disease and the development of medicine - SP13 Metals - SC14 Quantitative analysis - SC15 Dynamic equilibrium and calculations involving gases - SC16 Chemical cells and fuel cells	Knowledge and skills covered in the following units: - SB6 Plant structures and their functions - SB7 Animal coordination, control and homeostasis - SB8 Exchange and transport in animals - SB9 Ecosystems and material cycles - SP2 Forces and motion - SP4 Waves - SP5 Light and the electromagnetic spectrum	Knowledge and skills covered in the following units: - SC22 Hydrocarbons - SC23 Alcohols and carboxylic acids - SC24 Polymers - SC25 Qualitative analysis: Test for ions - SC26 Bulk and surface properties of matter including nanoparticles - SP9 Forces and their effects - SP11 Static electricity - SP12 Magnetism and the motor effect - SP13 Electromagnetic induction - SP14 Particle model - SP15 Forces and matter	Knowledge and skills covered in the following units: - SP7 Astronomy - SP6 Radioactivity	Revision of key topics before GCSE examinations. GCSE examinations begin May 2025	Students will be sitting GCSE examinations
Separate Science	Assessment	Students will be expected to complete exam questions every lesson (where possible)	Students will be expected to complete exam questions every lesson (where possible) Mock 1 - Three papers – one for each science - All Paper 1s - Each 100 marks - Each 1 hour and 45 minutes Units covered: - All units from Year 9, Year 10 Autumn 1 and Year 11 Autumn 1 – 2	Students will be expected to complete exam questions every lesson (where possible)	Students will be expected to complete exam questions every lesson (where possible) Mock 2 - Three papers – one for each science - All Paper 2s - Each 100 marks - Each 1 hour and 45 minutes Units covered: - All units from Year 9, Year 10 Spring 2 – Summer 2 - and Year 11 Spring 1 – 2	External GCSE Examinations	External GCSE Examinations



Year 12 A Level Sciences

		AUTUMN 1	AUTUMN 2	SPRING 1	SPRING 2	SUMMER 1	SUMMER 2
Biology	Knowledge and Skills	Module 2 Foundations in Biology 2.1 Basic components of living systems 2.2 & 2.3 Biological molecules, nucleotides & Nucleic acids	Module 2 Foundations in Biology 2.4 Enzymes 2.5 Biological membranes 2.6 Cell division	Module 3 Exchange and transport 3.1 Exchange surfaces & breathing 3.2 Transport in animals 3.3 Transport in plants	Module 3 Exchange and transport 3.3 Transport in plants cont. Module 4 Biodiversity, evolution & disease 4.1 Disease & the immune system	Module 4 Biodiversity, evolution & disease 4.2 Biodiversity 4.3 Classification & evolution	The first half of this half term is dedicated to structured revision and mock practise. Module 6 Genetics, Evolution & Ecosystems 6.6 Ecosystems 6.7 Populations & Sustainability
	Assessment	PAG 1.3 Using a light microscope 9.3 Qualitative testing of carbohydrates 5.2 Determining glucose concentration 9.2 Qualitative testing of lipids 9.1 Qualitative testing of proteins End of chapter tests 2.1 – Basic components of living systems Assessment window - All content covered in lesson will be assessed 1 X 90 minute paper	PAG 4.1 The effect of substrate concentration on the rate of reaction 4.2 The effect of enzyme concentration on the rate of a reaction 4.4 The effect of temperature on enzyme action 8.3 Diffusion through a membrane 8.2 Osmosis in cells 8.1 Water potential in a potato End of chapter tests 2.2 & 2.3 Biological molecules, nucleotides & Nucleic acids 2.4 Enzymes 2.5 Plasma membranes	PAG 5.3 Potometer End of chapter tests 2.6 Cell division 3.1 Exchange & transport	PAG 7.1 The effects of antibiotics on bacterial growth End of chapter tests 3.2 Transport in animals 3.3 Transport in plants 4.1 Disease & the immune system Assessment window - All content covered in lesson will be assessed 1 X 90 minute paper	PAG 12.1 Investigation into the action of Yeast End of chapter tests 4.2 Biodiversity 4.3 Classification & evolution	PAG Nil Mock examinations 2 X Exams <u>H020/01 Breadth of knowledge</u> 90 minutes <u>H020/02 Depth of knowledge</u> 90 minutes

Year 12 A Level Sciences



		AUTUMN 1	AUTUMN 2	SPRING 1	SPRING 2	SUMMER 1	SUMMER 2
Chemistry	Knowledge and Skills	Module 2 - Foundations in Chemistry - Ch 2 – Atoms, ions and compounds. - Ch 3 – Amount of substance. - Ch 5 Electrons and bonding - Ch 6 Shapes of molecules and intermolecular forces	Module 2 - Foundations in Chemistry - Ch 4 – Acids and redox - Ch 7 Periodicity Module 4 – Core organic chemistry and analysis - Ch 11 – Basic concepts of organic chemistry - Ch 12 – Alkanes	Module 3 – Periodic table and energy - Ch 8 Reactivity trends - Ch 9 Enthalpy Module 4 – Core organic chemistry and analysis - Ch 13 – Alkenes - Ch 14 – Alcohols	Module 3 – Periodic table and energy - Ch 9 Enthalpy – PAGs Module 4 – Core organic chemistry and analysis - Ch 14 – Alcohols – PAGs	Module 3 – Periodic table and energy - Ch 10 Reaction rates and equilibrium Module 4 – Core organic chemistry and analysis - Ch 15 – Haloalkanes - Ch 16 – Organic synthesis	Module 3 – Periodic table and energy - PAG catch up Module 4 – Core organic chemistry and analysis - Ch 17 Spectroscopy
	Assessment	PAG 1.3 - Determination of the formula of magnesium oxide End of chapter tests - Chapter 2 - Chapter 3 - Chapter 5 - Chapter 6 Assessment window: - All content covered in lesson will be assessed 1 X 70 minutes paper	PAG 2.2 – Determination of the molar mass of an acid End of chapter tests - Chapter 4 - Chapter 7 - Chapter 11 - Chapter 12	PAG 4.2 - Identifying unknowns End of chapter tests - Chapter 8 - Chapter 9 - Chapter 13 - Chapter 14	PAG 3.3 - Determination of Enthalpy of Combustion 5.3 - Oxidation of alcohols Assessment window: - All content covered in lesson will be assessed 2 X 70 minutes paper	PAG 6.1 Synthesis of aspirin 5.2 Preparation of cyclohexane End of chapter tests - Chapter 9 - Chapter 14	PAG 9.1 - Rate of decomposition of hydrogen peroxide 10.1 – Iodine clock End of chapter tests - Chapter 16 - Chapter 17 Mock exams - All content covered in lesson will be assessed 1 X Breadth paper, 1 X Depth paper

Year 12 A Level Sciences



		AUTUMN 1	AUTUMN 2	SPRING 1	SPRING 2	SUMMER 1	SUMMER 2
Physics	Knowledge and Skills	Module 2 - Foundations in Physics Ch 2 – Quantities, units, vectors Module 3 – Forces & motion Ch 3 – Motion Module 4 – Electrons, waves, and photons Ch 8 – Charge and current Ch 9 – Energy, power, and resistance	Module 3 – Forces and motion Ch 3 – Motion Ch 4 – Forces in action Module 4 – Electrons, waves, and photons Ch 9 – Energy, power, and resistance Ch 10 – Electrical circuits	Module 3 – Forces and motion Ch 4 – forces in action Ch 5 – work, energy, and power Module 4 – Electrons, waves, and photons Ch 10 – Electrical circuits Ch 11 – Waves 1	Module 3 – Forces and motion Ch 6 – Materials Ch 7 – Laws of motion and momentum Module 4 – Electrons, waves, and photons Ch 11 – Waves 1 Ch 12 – Waves 2	Module 3 – Forces and motion Ch 7 Laws of motion and momentum Module 4 – Electrons, waves, and photons Ch 12 – Waves 2 Ch 13 – Quantum physics	Module 5 – Newtonian world and astrophysics Ch 14 Thermal Physics Module 6 – Particles and medical physics Ch 21 - Capacitors
	Assessment	End of chapter tests - Chapter 2 - Chapter 8 Assessment window: - All content covered in lesson will be assessed 2 x 35 minute papers	PAG 1.1 Acceleration of free-fall 3.1 Resistivity End of chapter tests - Chapter 3 - Chapter 9	PAG 4.3 Non-ohmic conductors End of chapter tests - Chapter 4 - Chapter 10	PAG 2.1 Young's modulus 6.3 Polarisation 12.1 Materials research End of chapter tests - Chapter 6 - Chapter 11 Assessment window: - All content covered in lesson will be assessed 2 x 50 minute paper	PAG 5.2 Standing waves 6.1 Planck constant 12.1 Materials presentation End of chapter tests - Chapter 7 - Chapter 12, 13	PAG 9.1 Charging/discharging capacitors 11.1 Specific heat capacity End of chapter tests - Chapter 16 - Chapter 21 Mock exams - All content covered in lessons will be assessed 1 x Breadth paper 1 x Depth paper

Year 12 Vocational Sciences



		AUTUMN 1	AUTUMN 2	SPRING 1	SPRING 2	SUMMER 1	SUMMER 2
BTEC Diploma	Knowledge and Skills	Unit 1 – Principles and applications of Science I - Biology Unit 2 - Practical Scientific Procedures and techniques. - Keeping your cool Unit 3 - Scientific Investigation skills - A – planning and investigation - D – Enzymes in action - E – Diffusion of molecules - G – Energy content of fuels Unit 4 - Laboratory Techniques and their applications - Health and safety in science organisations	Unit 1 – Principles and applications of Science I - Biology - Chemistry Unit 2 - Practical Scientific Procedures and techniques. - Separate to identify Unit 3 - Scientific Investigation skills - F – Plants and their environment - H – electrical circuits - B – Data collection, processing, analysis and interpretation - C – Drawing conclusions and evaluations Unit 4 - Laboratory Techniques and their applications - Health and safety in science organisations - Making a nail varnish remover	Unit 1 – Principles and applications of Science I - Chemistry Unit 2 - Practical Scientific Procedures and techniques. - Keeping up the standards Unit 3 - Scientific Investigation skills - Recap over topics and preparation for exam Unit 4 - Laboratory Techniques and their applications - Making a nail varnish remover	Unit 1 – Principles and applications of Science I - Physics Unit 2 - Practical Scientific Procedures and techniques. - Keeping up the standards Unit 3 - Scientific Investigation skills - Revision Unit 4 - Laboratory Techniques and their applications - Making a nail varnish remover - Making a headache tablet	Unit 1 – Principles and applications of Science I - Physics Unit 2 - Practical Scientific Procedures and techniques. - How am I doing? Unit 3 - Scientific Investigation skills - Revision Unit 4 - Laboratory Techniques and their applications - Storing and communicating information in a laboratory	Unit 1 – Principles and applications of Science I - Revision Unit 4 - Laboratory Techniques and their applications - Storing and communicating information in a laboratory Unit 5 - Principles and applications of Science II - Biology

	Assessment	Unit 2 - Practical Scientific Procedures and techniques. Keeping your cool coursework	Unit 1 – Principles and applications of Science I Biology end of topic test 40 minutes	Unit 1 – Principles and applications of Science I Chemistry end of topic test 40 minutes	Unit 2 - Practical Scientific Procedures and techniques. Keeping up the standards coursework	Unit 1 – Principles and applications of Science I Physics end of topic test 40 minutes	Unit 1 – Principles and applications of Science I External exam 3x40 minutes
		Unit 4 - Laboratory Techniques and their applications Health and safety in science organisations coursework	Unit 2 - Practical Scientific Procedures and techniques. Separate to identify coursework	Unit 3 - Scientific Investigation skills - Exam - Part A -45mins - Part B -90mins	Unit 4 - Laboratory Techniques and their applications Making a headache tablet coursework	Unit 2 - Practical Scientific Procedures and techniques. How am I doing? coursework	Unit 4 - Laboratory Techniques and their applications Storing and communicating information in a laboratory coursework
		Unit 3 - Scientific Investigation skills Progress test (60mins)	Unit 3 - Scientific Investigation skills MOCK 1 (90 mins)	Unit 4 - Laboratory Techniques and their applications Making a nail varnish remover coursework		Unit 3 - Scientific Investigation skills - Exam resit (if necessary) - Part A -45mins - Part B -90mins	

Year 13 A Level Sciences



		AUTUMN 1	AUTUMN 2	SPRING 1	SPRING 2	SUMMER 1	SUMMER 2
Biology	Knowledge and Skills	Module 5 Communication, homeostasis & energy 5.1 Communication & Homeostasis 5.2 Excretion 5.3 Animal responses Juniper Hall Residential	Module 5 Communication, homeostasis & energy 5.4 Plant responses & Hormones 5.5 Photosynthesis 5.6 Respiration	Module 6 Genetics, evolution & ecosystems 6.1 Cellular control 6.2 Patterns of inheritance 6.3 Evolution	Module 6 Genetics, evolution & ecosystems 6.4 Manipulating genomes 6.5 Cloning & Biotechnology	This half term is dedicated to structured revision, mock practise, and completion of the final exams. We will complete one past paper every week.	This half term is dedicated to structured revision, mock practise, and completion of the final exams.
	Assessment	PAG 3.1-3.3 Sampling techniques 11.4 Behavioural responses of woodlice 2.4 Kidney dissection End of chapter tests 5.1 Communication & Homeostasis 5.2 Excretion	PAG 6.3 TLC in Plant pigments End of chapter test 5.3 Animal responses 5.4 & 5.5 Plant responses, hormones and Photosynthesis Mock examination <u>H420/01 Paper 1</u> Modules 2, 3, and 5 2 hours 15 minutes	PAG - Nil End of chapter tests 5.6 Respiration 6.1 Cellular control 6.2 Patterns of inheritance	PAG 10.3 Investigation into the change in pH of yoghurt 7.2 Dilution plating with microorganisms. End of chapter tests 6.3 Evolution 6.4 Manipulating genomes 6.5 Cloning & Biotechnology	Mock examinations <u>H420/01 Paper 1</u> Modules 2, 3, and 5 2 hours 15 minutes <u>H420/02 Paper 2</u> Modules 2, 4, and 6 2 hours 15 minutes <u>H420/03 Paper 3</u> All content covered 90 minutes	



		AUTUMN 1	AUTUMN 2	SPRING 1	SPRING 2	SUMMER 1	SUMMER 2
Chemistry	Knowledge and Skills	Module 5 – Physical chemistry and transition metals - Ch 18: Rates of reactions - Ch 19: Equilibrium - Ch 20: Acids, bases, and pH Module 6 – Organic chemistry and analysis - Ch 25: Aromatic chemistry - Ch 26: Carbonyls and carboxylic acids	Module 5 – Physical chemistry and transition metals - Ch 21: Buffers and neutralisation - Ch 22: Enthalpy and entropy Module 6 – Organic chemistry and analysis - Ch 27: Amines, amino acids, and proteins	Module 5 – Physical chemistry and transition metals - Ch 23: Redox and electrode potential Module 6 – Organic chemistry and analysis - Ch 28: Organic synthesis - Ch 29: Chromatography and spectroscopy	Module 5 – Physical chemistry and transition metals Ch 24: Transition elements	This half term is dedicated to structured revision, mock practise, and completion of the final exams.	This half term is dedicated to structured revision, mock practise, and completion of the final exams.
	Assessment	PAG 9.1 Rates of reactions 10.1 Initial rates of reaction Assessment window - Ch 10,18 & 19 - Ch 25 & 26 - Two tests approx. 50 minutes each	PAG 6.1 Synthesis of aspirin 7.2 Identifying unknowns 11.1 pH measurement End of chapter test - Ch 27 Mock examinations <u>H432/01 Paper 1</u> Modules 2, 3, and 5 Approx. 2 hours <u>H432/02 Paper 2</u> Modules 2, 4, and 6 Approx. 2 hours	PAG 12.1 Research skills 8.1 Electrochemical cells End of chapter test - Ch 20 & 21 - Ch 9 & 22 - Ch 28 - Ch 29	End of chapter test Ch 23 & 24 Mock examinations <u>H432/01 Paper 1</u> Modules 2, 3, and 5 2 hours 15 minutes <u>H432/02 Paper 3</u> Modules 2, 4, and 6 2 hours 15 minutes	Mock examination <u>H432/03 Paper 3</u> All topics 90 minutes	

Year 13 Vocational Sciences



		AUTUMN 1	AUTUMN 2	SPRING 1	SPRING 2	SUMMER 1	SUMMER 2
BTEC Diploma	Knowledge and Skills	Unit 5 – Principles and Applications of Science II - Biology - Chemistry Unit 6 – Investigative Project - Project research Unit 8 - Physiology of Human Body Systems - Musculoskeletal Disorders - Lymphatic Disorders	Unit 5 – Principles and Applications of Science II - Chemistry - Physics Unit 6 – Investigative Project - Project planning Unit 8 - Physiology of Human Body Systems - Lymphatic Disorders - Nutrition and Health	Unit 5 – Principles and Applications of Science II - Physics Unit 6 – Investigative Project - Project planning - Project Implementation and Review Unit 12 - Infection and Disease - Infectious and non-infectious diseases	Unit 5 – Principles and Applications of Science II - Revision Unit 6 – Investigative Project - Project Implementation and Review Unit 12 - Infection and Disease - Transmission of infectious diseases	Unit 5 – Principles and Applications of Science II - Revision Unit 6 – Investigative Project - Project Implementation and Review Unit 12 - Infection and Disease - Treatment of infectious diseases	Unit 12 - Infection and Disease Body defences The course finishes in June. Lessons in this term are dedicated to making sure that coursework folders are correct, and paperwork is complete.
	Assessment	Unit 5 – Principles and Applications of Science II - End of topic assessment Unit 6 – Investigative Project - Project research coursework Unit 8 - Physiology of Human Body Systems - Musculoskeletal Disorders coursework	Unit 5 – Principles and Applications of Science II - End of topic assessment Unit 8 - Physiology of Human Body Systems - Lymphatic Disorders - Nutrition and Health coursework	Unit 5 – Principles and Applications of Science II - External exam 3x 40 minutes Unit 6 – Investigative Project - Project planning coursework Unit 12 - Infection and Disease - Infectious and non-infectious diseases coursework	Unit 12 - Infection and Disease Transmission of infectious diseases	Unit 5 – Principles and Applications of Science II - External exam 3x 40 minutes (resit if necessary) Unit 6 – Investigative Project - Project Implementation and Review coursework Unit 12 - Infection and Disease - Treatment of infectious diseases coursework	Unit 12 - Infection and Disease Body defences coursework

BTEC Ext Cert

Knowledge and Skills

Unit 3 - Scientific Investigation skills

- A – planning and investigation
- D – Enzymes in action
- E – Diffusion of molecules
- G – Energy content of fuels

Unit 8 - Physiology of Human Body Systems

- Musculoskeletal Disorders

Unit 3 - Scientific Investigation skills

- F – Plants and their environment
- H – electrical circuits
- B – Data collection, processing, analysis and interpretation
- C – Drawing conclusions and evaluations

Unit 8 - Physiology of Human Body Systems

- Musculoskeletal Disorders

Unit 3 - Scientific Investigation skills

- Recap over topics and preparation for exam

Unit 8 - Physiology of Human Body Systems

- Lymphatic Disorders

Unit 3 - Scientific Investigation skills

- Revision

Unit 8 - Physiology of Human Body Systems

- Lymphatic Disorders
- Nutrition and Health

Unit 3 - Scientific Investigation skills

- Revision

Unit 8 - Physiology of Human Body Systems

- Nutrition and Health

The course finishes in June. Lessons in this term are dedicated to making sure that coursework folders are correct, and paperwork is complete.

Assessment

Unit 3 - Scientific Investigation skills

- Progress assessment (60mins)

Unit 3 - Scientific Investigation skills

- MOCK 1 (90mins)

Unit 8 - Physiology of Human Body Systems

- Musculoskeletal Disorders coursework

Unit 3 - Scientific Investigation skills

- Exam
Part A -45mins
Part B -90mins

Unit 3 - Scientific Investigation skills

- Regular assessment

Unit 8 - Physiology of Human Body Systems

- Lymphatic Disorders coursework

Unit 3 - Scientific Investigation skills

- Exam (resit if needed)
Part A -45mins
Part B -90mins

Unit 8 - Physiology of Human Body Systems

- Nutrition and Health coursework