

Year 10 Science						
Refer to	Term 1 – September to December	Term 2 – January to March	Term 3 – April to July			
GCSE Specification	<ul> <li>Bonding, Structure and Properties of Matter</li> <li>What are the students learning? <ul> <li>Chemical bonds – ionic, covalent, metallic</li> <li>Bonding and structure in relation to properties</li> <li>Structure and bonding of carbon</li> <li>Nanoparticles</li> </ul> </li> <li>What are the key standardised assessments? <ul> <li>X1 FA linking current learning (AO123)</li> <li>X1 FA: Required Practical</li> </ul> </li> <li>What are the standardised homework tasks? Educake is used as the standardised homework platform</li> </ul>	Infection and Responses and Bioenergetics          What are the students learning?         • Health issues         • Effect of lifestyle         • Coronary heart disease         • Cancer         • Communicable diseases (including plants and their defences)         • Human defence systems         • Vaccination         • Drugs to treat disease         • Discovery and development of drugs         • Photosynthesis         • Uses of glucose         • Respiration         • Response to exercise         • Metabolism         What are the key standardised assessments?         • X1 FA linking current learning (AO123)         • X1 FA: Required Practical         • Mock exams	Quantitative Chemistry         What are the students learning?         • Chemical measurements         • Conservation of mass         • Quantitative interpretation of chemical equations         • Amounts of substances, masses and moles         • Concentration of solutions         What are the key standardised assessments?         • X1 FA linking current learning (AO123)         • X1 FA: Required Practical         What are the standardised homework tasks?         Educake is used as the standardised homework tasks?         Educake is used as the standardised homework tasks?			



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Organisation	Particle Model	Homeostasis and Response and Ecology
What are the students learning?• Principles of organisation• The human digestive system• The heart and blood vessels• Blood• Coronary heart disease• Plant tissues, organs, systems	<ul> <li>What are the students learning?         <ul> <li>Particle model of matter</li> <li>Internal energy and energy transfers</li> <li>Particle model and pressure</li> </ul> </li> <li>What are the key standardised assessments?         <ul> <li>X1 FA linking current learning (AO123)</li> </ul> </li> </ul>	<ul> <li>What are the students learning?</li> <li>Homeostasis</li> <li>The human nervous system</li> <li>Endocrine system: control of blood glucose, hormones in human reproduction/contraception</li> <li>Adaptations, interdependence and competition</li> </ul>
What are the key standardised assessmer     X1 FA linking current learning (AC     X1 FA: Required Practical		<ul> <li>Organisation of an ecosystem</li> <li>Biodiversity and the effect of human interaction on ecosystems</li> </ul>
What are the standardised homework task Educake is used as the standardised hom platform		<ul> <li>What are the key standardised assessments?</li> <li>Required practical: reaction time</li> <li>Required practical: estimating population size</li> </ul>
Energy and Electricity	<ul><li>Atoms and isotopes</li><li>Atoms and nuclear radiation</li></ul>	What are the standardised homework tasks? Educake is used as the standardised homework platform
What are the students learning?     Energy changes in a system (E <sub>k</sub> , I     Power		
<ul> <li>Conservation and dissipation of energy transfer and Hooke's Law</li> <li>Efficiency</li> <li>National and global energy resourtion</li> </ul>	Educake is used as the standardised homework platform.	
<ul> <li>Current, potential difference and resistance</li> <li>Series and parallel circuits</li> <li>Domestic uses and safety</li> <li>Energy transfers</li> </ul>		
The National Grid <u>What are the key standardised assessmen</u> Required practical: Hooke's Law	nts?	





CATHOLIC HIGH SCHOOL Year 11 Science					
Refer to	Term 1 – September to December	Term 2 – January to March	Term 3 – April to July		
GCSE Specification	Chemical changes         Rate and Extent of Chemical Change         Organic Chemistry         Chemical Analysis         What are the students learning?         • Reactivity of metals         • Reactivity series, extraction of metals and metal oxides         • Electrolysis         • Electrolysis         • Reaction profiles and catalysts         • Rate of reaction and collision theory         • Effect of temperature and reaction between acids and metals         • Effect of surface area and reaction of acids and carbonates         • Equilibrium         • Carbon compounds as fuels and feedstock         • Crude oil, fractional distillation, hydrocarbons, cracking         • Purity, formulations and chromatography         • Identification of common gases         What are the key standardised assessments?         • X1 FA linking current learning (AO123)         • X1 FA: Required Practical         • Mock exams (x6 papers	Forces and Waves         What are the students learning?         • Forces and their interactions         • Work done and energy transfer         • Forces and elasticity         • Forces and motion         • Waves in air, fluids and solids         • Electromagnetic waves         What are the key standardised assessments?         • X1 FA linking current learning (AO123)         • X1 FA linking current learning (AO123)         • X1 FA linking current learning (AO123)         • X1 FA: Required Practical         • Mock exams         What are the standardised homework tasks?         Educake is used as the standardised homework platform         Inheritance, Variation and Evolution         • Meiosis         • DNA         Genetic inheritance, inherited disorders, sex determination         • Variation         • Variation         • Evolution	<ul> <li>Chemistry of the Atmosphere and Resources</li> <li>What are the students learning? <ul> <li>Composition and evolution of the Earth's atmosphere</li> <li>Carbon dioxide and methane as greenhouse gases</li> <li>Common atmospheric pollutants and their resources</li> <li>Using the Earth's resources and obtaining potable water</li> <li>Life cycle assessment and recycling</li> </ul> </li> <li>What are the key standardised assessments? <ul> <li>X1 FA linking current learning (AO123)</li> <li>X1 FA: Required Practical</li> </ul> </li> <li>What are the standardised homework tasks? <ul> <li>Educake is used as the standardised homework tasks?</li> <li>AND EXAM PREPARATION</li> </ul> </li> </ul>		



		CATHOLIC HIGH SCHOOL
What are the standardised homEducake is used as the standardised homplatformHomeostasis and Response atWhat are the students learning	What are the key standardised assessments?         • X1 FA linking current learning (AO123)         • X1 FA: Required Practical         • Mock exams         ?         What are the standardised homework tasks?	
<ul> <li>Homeostasis</li> <li>The human nervous sy</li> <li>Endocrine system: con glucose, hormones in h reproduction/contracep</li> <li>Adaptations, interdepen competition</li> <li>Organisation of an eco</li> <li>Biodiversity and the effi interaction on ecosystem</li> </ul>	trol of blood human tion ndence and system ect of human Magnetism and Electromagnetism What are the students learning? • Permanent and induced magnetism, magnetic forces and fields	
What are the key standardised         • Required practical: read         • Required practical: estimopulation size         What are the standardised hom         Educake is used as the standardised platform.	assessments?       •       What are the key standardised assessments?         ction time       •       X1 FA linking current learning (AO123)         what are the standardised homework tasks?       •         Educake is used as the standardised homework tasks?         platform.	