


Cardrew Court School Longterm Overview: Science

Our Science curriculum allows our pupils to explore the wonder of the world around them, to be curious of different phenomenon and be willing to take risks in order to find solutions to a variety of life's challenges. By providing stimulating opportunities for our pupils to develop their problem-solving skills through group discussion, guided activities and independent investigation, in order to best prepare them to thrive in a multi-faceted and often complex world. Our pupils leave our school with Science having played a key role in their education. Our pupils will have the opportunity to gain appropriate qualifications, including single and separate science iGCSEs and both Award and Certificate opportunities at BTEC allowing us to differentiate appropriately, according to our students' interests and abilities.

Science	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
School Values 						
Termly and Assembly Themes	Respect	Resilience	Health	Happiness	Kindness	Independence
LKS2A	Biology: Skeletons & Movement	Biology: Nutrition & Diet & Food Waste	Chemistry: Soils, Rocks & Fossils	Physics: Light	Biology: Plants A&B Sustainability: Biodiversity	Physics: Forces Physics: Magnets
LKS2B	Biology: Group & Classify Living Things Biology: Data Collection A	Chemistry: States of Matter	Physics: Sound Biology: Data Collection B	Physic: Electricity Sustainability: Energy	Biology: Habitats Biology: Data Collection C Sustainability: Deforestation	Biology: The Digestive System Biology: Food Chains
UKS2A	Physics: Forces	Physics: Earth Sustainability: Global; Warming	Chemistry: Properties of Materials	Biology: Animals including Humans	Biology: Reproduction A	Biology: Reproduction B
UKS2B	Biology: Living Things & Their Habitats	Physics: Light Sustainability: Light Pollution	Physics: Electricity Sustainability: Renewable Energy	Biology: The Circulatory System Biology: Diet, Drugs & Lifestyle	Biology: Variation & Adaptations	Biology: Fossils Theme to be released
Year 7	Ecosystems: Interdependence Electromagnetism: Current	Reactions: Acids and Alkalis Organisms: Cells Earth: Earth Structure	Matter: Particle Model Waves: Sound	Organisms: Movement Forces: Speed	Genes: Variation Electromagnetism: Voltage & Resistance	Genes: Human reproduction Reactions: Metals and non-metals
Year 8	Organisms: Breathing Energy: Transfers	Energy: Heating & Cooling Matter: Periodic Table Matter: Elements	Electromagnetism: Magnetism Waves: Light	Ecosystems: Plant Reproduction Organisms: Digestion	Forces: Gravity Earth: Climate	Ecosystems: Respiration Matter: Separating Mixtures
Year 9	Genes: Evolution Electromagnetism: Electromagnets	Ecosystems: Photosynthesis Forces: Contact Forces Forces: Pressure	Reactions: Chemical energy Reactions: Types of reaction	Energy: Work Earth: Climate	Genes: Inheritance Earth: Earth resources	Waves: Wave effects Waves: Wave properties

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Year 10 Biology GCSE A	The Nature and Variety of Organisms	Blood and Organs	DNA and Inheritance	Human Nutrition	Plant Nutrition and Transport	Ecology and Environment
Year 10 Chemistry GCSE A	Particles and Mixtures	Periodic Table and Bonding	Group 1, 7, 0 and Atmospheric Gases	Rate of Reaction and Energetics	Inorganic Chemistry	Hydrocarbons
Year 10 Physics GCSE A	Astrophysics	Waves	Forces and Motion	Solids, Liquids and Gases	Electricity	Energy Resources
Year 10 BTEC A	Unit A1 Being Organised	Unit ASc12 Investigating Crime Scene Evidence	Unit A2 Developing a Personal Progression Plan	Unit ASc6 Planning a Scientific Experiment	Unit A Sc7 Investigating Variations in Plants and Animals	Unit A Sc10 Making a Chemical Product
Year 11 Biology GCSE B	Respiration and Gas Exchange	Reproduction	Use of Biological Resources	Revision and Past Papers	Revision and IGCSE Exams	Revision and IGCSE Exams
Year 11 Chemistry GCSE B	Alcohols, Acids and Polymers	Equations and Calculations	Electrolysis and Qualitative Tests	Revision and Past Papers	Revision and IGCSE Exams	Revision and IGCSE Exams
Year 11 Physics GCSE B	Radioactivity and Particles	Energy Transfers	Magnetism and Electromagnetism	Revision and Past Papers	Revision and IGCSE Exams	Revision and IGCSE Exams
Year 11 BTEC B	Unit A3 Working with Others	Unit A Sc9 Practical Actions to Protect the Environment	Unit A4 Researching a Topic	Unit ASc11 Testing the Properties of Products	Unit ASc13 Exploring Biology	Unit ASc14 Chemistry