



# Kibblesworth Academy

## Class plan - Willow 4 2023 2024



One Planet, Our World

Geography



Forces and Magnets

Science



Making It Move

Design and technology



Y4 WRM – Spring (v3.0)

Mathematics

Suggested text

Collins Primary Atlas - Collins Kids; The Street Beneath My Feet - Charlotte Guillain

Memorable experience

Machines and mechanisms

Innovate challenge

Let's investigate focus:  
Observing, measuring and recording

Designing and making an automaton toy

Geography

Maps; Locating countries; Human and physical features; Four-figure grid references; Primary data; Compass points; Earth's layers; Plate tectonics; Latitude and longitude; European countries and cities; UK counties and cities; Carbon footprints; Weather and the local environment; Land use; Fieldwork; Local enquiry

Science

Pushing and pulling forces; Contact forces; Friction; Force meters; Bar charts; Non-contact forces; Magnetism; Magnetic attraction and repulsion; Magnetic fields; Magnetic properties; Magnetic Earth; Uses of friction and magnetism; Working scientifically - Identifying and classifying, Pattern seeking, Comparative tests, Research

Mathematics

Block 1: Number – Multiplication and division; Block 2: Measurement – Length and perimeter; Block 3: Number – Fractions; Block 4: Number – Decimals

Design and technology

Cam mechanisms; Designing and making automaton toys; Cutting, joining, strengthening and finishing



Light and Shadows

Science



Food and the Digestive System

Science



Interconnected World

Geography



Sound

Science

Suggested text

Collins Primary Atlas - Collins Kids

Innovate challenge

Let's investigate focus:  
Reporting and concluding

Let's investigate focus:  
Planning and carrying out

Let's investigate focus:  
Planning and carrying out

Geography

Compass points; Four and six-figure grid references; Tropics of Cancer and Capricorn; Countries, climate and culture of North and South America; Significant physical features of the UK; Renewable and non-renewable energy; National Rail network; UK canal network; Fieldwork; Local enquiry

Science

Light; Light sources and reflectors; Reflective and non-reflective materials; Sun safety and protection; Shadows; Opaque, transparent and translucent materials; Changes in shadows; Working scientifically – Identifying and classifying, Observing changes over time, Comparative tests, Pattern seeking, Research

Producers and consumers; Ecosystems; Food chains and food webs; Changes in ecosystems; Digestive system; Teeth types – incisors, canines, premolars, molars; Teeth health and dental hygiene; Working scientifically – Identifying and classifying, Observing changes over time, Comparative test, Pattern seeking, Research

Sound facts; Investigating sound; Sound waves; How we hear sounds; Muffling sound investigation; Volume and distance investigation; Changing the volume of sound investigation; Changing the pitch of sound investigation; Investigating sound further; Working scientifically – Identifying and classifying, Comparative test, Pattern seeking, Research



Y4 WRM - Autumn (v3.0)

Mathematics



States of Matter

Science



Grouping and Classifying

Science



Electrical Circuits and Conductors

Science

Innovate challenge

Let's investigate focus:  
Observing, measuring and recording

Let's investigate focus:  
Reporting and concluding

Designing and making a nightlight

Geography

Sustainable energy sources

Science

Classifying solids, liquids and gases; Unusual materials; Particle theory; Change of state; Melting, freezing, evaporation and condensation; States of water; Measuring temperature; Investigating melting; Line graphs; Researching melting and boiling points; Working scientifically - Observing changes over time, Identifying and classifying, Pattern seeking, Comparative test, Research

Types of classification; Taxonomy; Understanding and creating classification keys; Animal kingdom; Plant kingdom; Classifying new discoveries; Working scientifically - Identifying and classifying, Pattern seeking, Research

Sources of electricity; Electrical devices; Electrical components; Series circuits; Complete and incomplete circuits; Conductivity; Conductors and insulators; Wired plugs; Incandescent light bulbs; Future of electricity; Working scientifically - Identifying and classifying, Pattern seeking, Comparative test, Research

Mathematics

Block 1: Number - Place value; Block 2: Number - Addition and subtraction; Block 3: Measurement - Area; Block 4 Number - Multiplication and division

Design and technology

Making switches; Programmable technologies; Programming a micro:bit; Designing and making a nightlight; Incorporating programming and circuits in products



Y4 WRM – Summer (v2.0)

Mathematics



Firedamp and Davy Lamps

History



Dynamic Dynasties

History



Groundbreaking Greeks

History

Art and design	Art appreciation – Pitmen Painters; Sketching		
Suggested text		Bronze and Sunflower – Cao Wenxuan	Who Let the Gods Out? – Maz Evans
Memorable experience	Mining museum visit	The Yellow Emperor and the Xia Dynasty	Time team
Innovate challenge	New exhibition	Life after the Shang Dynasty	The ancient Greeks' greatest idea
Geography	Natural resources; Sketch maps; Energy		Interpreting geographical sources
History	Timelines; The Industrial Revolution; Mining disasters; Mining strikes	Ancient China; Timelines and chronology; Shang Dynasty; Sources and artefacts; Oracle bones and religious beliefs; Bronze Age in ancient China; Historical enquiry; Significance of jade and silk; Power and social hierarchy; Everyday life; Warfare; Significant individual – Di Xin; End of the Shang Dynasty; Bronze Ages around the world; Life after the Shang Dynasty; Legacy	Ancient Greek periods – Minoan civilisation, Mycenaean civilisation, Dark Age, Archaic period, Classical period, Hellenistic period; Chronology and timelines; Primary and secondary sources; City states; Democracy; Role of men and women; Social hierarchy; Great Athenians; the Acropolis; Greek art, culture, architecture, philosophy, medicine and mathematics; Olympic Games; Alexander the Great; End of the Greek Empire; Legacy
Personal, social and health education	Health and safety rules; Opinions		
Science	Rocks; Properties of materials		
English	Explanations; Inference	Narrative poems; Biographies; Stories from another culture	Greek myths; Balanced arguments; Playscripts; Odes

Mathematics

Block 1: Number – Fractions, decimals and percentages, Recognise, order and compare decimals; Block 2: Measurement – Problems (measurement), Money, Converting units; Block 3: Measurement – Time, Converting units; Block 4: Statistics – Construct, read and interpret, Problems (statistics); Block 5: Geometry – Shape, Patterns and symmetry, Angles; Block 6: Geometry – Position, direction and coordinates



Hajj

Religious education



Passover

Religious education



Eid ul-Adha

Religious education



Holi

Religious education

Memorable experience

Mystery suitcases

Special meal

Exploring sacrifice

Meaning of colour

Innovate challenge

Thinking about journeys

Thinking about freedom

Exploring charity

Exploring needs

Religious education

Pilgrimage; Hajj customs;  
Special journeys

Plagues of Egypt; Seder plate;  
Traditions and customs;  
Freedom

Pilgrimage; Sacrifice; Charity

Meaning of colour; Holi  
celebrations; Needs