



	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Nursery 'Understanding the World'	What makes me special? - Owl babies – me and my family - Harvest - Using my senses to explore - How do I feel? - What can you hear? Smell? Taste?	What do I celebrate? - What is changing around us? - Bonfire Night - How and why are firefighters important? - Fire safety - Diwali	Can you tell me a tale? - How have things changed? - Changes over the years - Let's explore materials - Building materials - How do materials change	What do you see on the farm? - What is a farm? - Experiences of a farm - What is changing around us and how is it changing? - How does an animal change? - How to look after plants - Caring for living things - Growing my own bean	Who are our helping heroes? - How are the people around you heroes? - What do they do? - Visitors – police officer, dentist, fire fighter.	Where shall we sail? - How can we sail? - How can we travel? - Have I travelled anywhere? - How did I get there? - Who would sail?
Enrichment / Trip Opportunities			Science Week Investigations		Visit from a dentist	Smithhills Farm Trip
Careers Alignment	<u>Childminder</u> <i>Typical UK Pathway</i> 1. School 2. Training to care for children	<u>Fireguard</u> <i>Typical UK Pathway</i> 1. School 2. Emergency service training	<u>Toy Maker</u> <i>Typical UK Pathway</i> 1. School 2. Training to make toys <u>Puppeteer</u> 1. School	<u>Animal Care Worker</u> <i>Typical UK Pathway</i> 1. School 2. Training with animals	<u>Crossing Patrol Officer</u> <i>Typical UK Pathway</i> 1. School 2. Safety training	<u>Sailor</u> <i>Typical UK Pathway</i> 1. School 2. Training at sea

Science Curriculum

Long Term Overview

	<u>Baker</u> 1. School 2. Learning on the job 3. Health and Safety training	<u>Fireworks Safety Officer</u> 1. School 2. Health and safety training	2. Training for how to make puppets	<u>Tractor Driver</u> 1. School 2. Training on the job 3. License to drive a tractor	<u>Librarian</u> 1. School 2. Training to work with books	<u>Harbour Worker</u> 1. School 2. On the job learning.
Reception 'Understanding the World'	What are my superpowers? - Talk about the lives of people familiar to them branching out to careers	Where will my imagination take me? - Explore differences in life in this country and other countries	What happens in our world? - Know some similarities and differences between the world around them and contrasting environments	Do I want to be a knight? - Compare and contrast the past with present day	Where do animals live? - Explore the natural world, observing and describing the world around them - Compare and contrast their immediate environment to contrasting environments - Life cycles	Do I want to be a pirate? - Compare and contrast environments - Exploring changing matter and materials
Enrichment / Trip Opportunities	Visit from a dentist		Science Week Investigations			Smithills Farm Visit
Careers Alignment	<u>Supermarket Assistant</u>	<u>Airline Cabin Crew</u> <i>Typical UK Pathway</i>	<u>Weather Reporter</u> <i>Typical UK Pathway</i>	<u>Castle Guide</u> <i>Typical UK Pathway</i>	<u>Pond Dipper</u> <i>Typical UK Pathway</i>	<u>Map Maker (Cartographer)</u>

Science Curriculum

Long Term Overview

	<i>Typical UK Pathway</i> 1. School 2. On the job learning <u>Police Officer</u> 1. School 2. Emergency services training	1. School 2. Health and Safety training <u>Translator</u> 1. School 2. Language qualification	1. School 2. Training to identify the weather <u>Road Worker</u> 1. School 2. Health and safety job training	1. School 2. Learning about history <u>Blacksmith</u> 1. School 2. Training of traditional skills	1. School 2. Learning about nature <u>Tree Surgeon</u> 1. School 2. Safety and outdoor training	<i>Typical UK Pathway</i> 1. School 2. Learning about maps <u>Ship Builder</u> 1. School 2. Training about materials
Year 1	Plants Which plants will we find in the park? Scientific Enquiry Link: Observing over time	Seasonal Changes Why does it get darker earlier in Winter? Scientific Enquiry Link: Research using secondary sources	Animals including humans Why are humans not like tigers? Scientific Enquiry Link: Pattern seeking	Living things & their habitats Where do plants and animals live? Scientific Enquiry Link: Identifying, classifying & grouping	Changing materials Which materials should the three little pigs use to build a house? Scientific Enquiry Link: Comparative & fair testing	Consolidation Activity
Enrichment / Trip Opportunities	Local Park Visit and Plant Life Study	Chester Zoo Visit		Red House Farm Visit	Creating 3D Sculptures	
Careers Alignment	<u>Gardener</u> <i>Typical UK Pathway</i> 1. GCSE 2. College Course in	<u>Teacher</u> <i>Typical UK Pathway</i> 1. GCSE 2. A Levels 3. University Degree	<u>Zookeeper</u> <i>Typical UK Pathway</i> 1. GCSE 2. College course in animal care	<u>Florist</u> <i>Typical UK Pathway</i> 1. GCSE	<u>Builder</u> <i>Typical UK Pathway</i> 1. GCSE 2. Apprenticeship in construction.	

Science Curriculum

Long Term Overview

	gardening or horticulture <u>Arborist</u> <i>Typical UK Pathway</i> 1. GCSE 2. College course in arboriculture 3. Safety certificates for climbing and equipment use.	4. Teacher Training course (PGCE or similar) <u>Nature Guide</u> <i>Typical UK Pathway</i> 1. GCSE 2. College or university course in wildlife, countryside or nature studies	or management 3. Degree in Zoology is extremely advantageous. <u>Vet</u> <i>Typical UK Pathway</i> 1. GCSE 2. A Levels in science subjects 3. University degree in veterinary medicine	2. College course in floristry <u>Farmer</u> <i>Typical UK Pathway</i> 1. GCSE 2. College course in agriculture.	<u>Artist</u> <i>Typical UK Pathway</i> 1. GCSE (especially in art) 2. College or university course in art is advantageous.	
Year 2	Living things & their habitats Why would a dinosaur not make a good pet? Scientific Enquiry Link: Research using secondary sources	Forces & movement Could Lightning McQueen race on our field? Scientific Enquiry Link: Comparative & fair testing	Animals including humans How will 5 a day help me to be healthy? Scientific Enquiry Link: Observing over time	Plants How can I be the next Master Chef? Scientific Enquiry Link: Pattern seeking	Uses of everyday materials What materials would you use to build our school? Scientific Enquiry Link: Identifying, classifying & grouping	Consolidation Activity
Enrichment / Trip Opportunities	Habitat 3D Models		Rock Pool Visit	Cooking – Creating fruit platters	3D Sculptures	

Science Curriculum

Long Term Overview

Careers Alignment	<u>Biologist</u> <i>Typical UK Pathway</i> - GCSE - A Level science (biology) - University degree in Biology <u>Park Ranger</u> <i>Typical UK Pathway</i> - GCSE - College course in countryside management or conservation - Outdoor safety certificates	<u>Road Engineer</u> <i>Typical UK Pathway</i> - GCSE - A Level maths or college engineering course - University degree or higher apprenticeship in civil engineering <u>Mechanic</u> <i>Typical UK Pathway</i> - GCSE - College course in motor vehicle maintenance - Apprenticeship	<u>Chef</u> <i>Typical UK Pathway</i> - GCSE - College course in professional cookery - Apprenticeship <u>Dietician</u> <i>Typical UK Pathway</i> - GCSE - A Level Science (Biology) or College Health Course - University degree in Dietetics - Professional registration	<u>Conservationist</u> <i>Typical UK Pathway</i> - GCSE - College course in conservation or environmental studies - University degree or specialist training in conservation. <u>Horticulturist</u> <i>Typical UK Pathway</i> - GCSE - College course in horticulture - University degree or apprenticeship in gardening / plant care.	<u>Architect</u> <i>Typical UK Pathway</i> - GCSE - A level Art or Maths - University degree in Architecture - Professional training and work placement <u>Interior Designer</u> <i>Typical UK Pathway</i> - GCSE - College course in art, design or interior design - University degree or specialist design course.	
Year 3	Rocks, fossils and soils What do rocks tell us about the	Magnets What is the attraction?	Animals including humans Can everyone move like Simone Biles?	Plants How did that blossom become an apple?	Light How far can you throw a shadow?	Consolidation Activity

Science Curriculum

Long Term Overview

	way the Earth was formed? Scientific Enquiry Link: Identifying, classifying & grouping	Scientific Enquiry Link: Research using secondary sources	Scientific Enquiry Link: Pattern seeking	Scientific Enquiry Link: Comparative & fair testing	Scientific Enquiry Link: Observing over time	
Enrichment / Trip Opportunities	Cooking – Seasonal Tarts				Local River Study	
Careers Alignment	<u>Palaeontologist</u> Typical UK Pathway - GCSE - A Level Science (Biology or Geology) - University degree in Palaeontology or Earth Sciences <u>Geologist</u> Typical UK Pathway - GCSE - A Level Science or Geography	<u>Physicist</u> Typical UK Pathway - GCSE - A Level Physics and Maths - University degree in Physics <u>MRI Radiographer</u> Typical UK Pathway - GCSE - A Level Science or College Health Course - University degree in Radiography	<u>Physiotherapist</u> Typical UK Pathway - GCSE - A Level Science (Biology) or College health course - University degree in Physiotherapy - Professional Registration <u>Personal Trainer</u> Typical UK Pathway - GCSE - Level 2 Fitness	<u>Landscape Architect</u> Typical UK Pathway - GCSE - A Level Art, Geography or College Design Course - University degree in Landscape Architecture <u>Beekeeper</u> Typical UK Pathway - GCSE	<u>Optician</u> Typical UK Pathway - GCSE - A Level Science (Physics or Biology) - University degree or apprenticeship in Optometry - Professional registration <u>Photographer</u> Typical UK Pathway - GCSE - College course in Photography or Art - Work experience	

Science Curriculum

Long Term Overview

	3. University degree in Geology	4. Specialist MRI Training	Instructor Qualification 3. Level 3 Personal Trainer Qualification	2. Beekeeping courses or local association training 3. On the job experience	or specialist photography training.	
Year 4	Living things & their habitats Which animals and plants, wild or domestic thrive in your locality? Scientific Enquiry Link: Identifying, classifying & grouping	Electricity How could we cope without electricity for one day? Scientific Enquiry Link: Comparative & fair testing	Animals including humans What happens to the food we eat? Scientific Enquiry Link: Research using secondary sources	States of matter Will we ever see the water we drink again? Scientific Enquiry Link: Observing over time	Sound Why is the sound made by Ed Sheeran enjoyed by so many people? Scientific Enquiry Link: Pattern seeking	Consolidation Activity
Enrichment / Trip Opportunities	Reptile Day	Exploring Circuits	Mozaik Digital Education	Creating Mini Water Cycles	Musical Instrument Crafts	
Careers Alignment	<u>Ecologist</u> Typical UK Pathway 1. GCSE 2. A Level Science (Biology or Geography) 3. University degree in Ecology or Environmental Science.	<u>Electrician</u> Typical UK Pathway 1. GCSE 2. College course in electrical installation 3. Apprenticeship and safety certification	<u>Doctor</u> Typical UK Pathway 1. GCSE 2. A Level Biology and Chemistry 3. Medical degree 4. Foundation and specialist training	<u>Water Engineer</u> Typical UK Pathway 1. GCSE 2. A Level Maths or Science 3. University degree or apprenticeship in Civil	<u>Acoustic Engineer</u> Typical UK Pathway 1. GCSE 2. A Level Maths and Physics 3. University degree in Acoustic Engineering	

Science Curriculum

Long Term Overview

	<u>Wildlife Filmmaker</u> <i>Typical UK Pathway</i> - GCSE - College course in Media, Film or Photography - Specialist training and field experience	<u>Electrical Engineer</u> <i>Typical UK Pathway</i> - GCSE - A Level Maths and Physics - University degree or higher apprenticeship in Electrical Engineering.	<u>Dentist</u> <i>Typical UK Pathway</i> - GCSE - A Level Biology and Chemistry - Dental degree - Professional registration	<i>or Water Engineering</i> <u>Meteorologist</u> <i>Typical UK Pathway</i> - GCSE - A Level Maths and Physics - University degree in Meteorology or Atmospheric Science	<i>or Engineering</i> <u>Audiologist</u> <i>Typical UK Pathway</i> - GCSE - A Level Science (Biology or Physics) - University degree in Audiology - Professional registration	
Year 5	Living things & their habitats Do all animals and plants start life as an egg? Scientific Enquiry Link: Identifying, classifying & grouping	Forces Does everything that goes up always come down? Scientific Enquiry Link: Pattern seeking	Animals including humans How different will you be when you are as old as your grandparents? Scientific Enquiry Link: Research using secondary sources	Earth & Space Why are we sending another human to the moon? Scientific Enquiry Link: Observing over time	Properties of materials Which materials have shape shifting abilities? Scientific Enquiry Link: Comparative & fair testing	Consolidation Activity
Enrichment / Trip Opportunities	Reptile Day	Resistance Investigations	Science Week Investigations	Mozaik Digital Education		
Careers Alignment	<u>Paediatrician</u> <i>Typical UK Pathway</i>	<u>Sports Scientist</u> <i>Typical UK Pathway</i>	<u>School Counsellor</u> <i>Typical UK Pathway</i>	<u>Astronomer</u> <i>Typical UK Pathway</i>	<u>Product Designer</u> <i>Typical UK Pathway</i>	

Science Curriculum

Long Term Overview

	1. GCSE 2. A Level Biology and Chemistry 3. Medical degree 4. Paediatric specialist training <u>Midwife</u> <i>Typical UK Pathway</i> 1. GCSE 2. A Level Science or College Health Course 3. University degree in Midwifery 4. Professional registration	1. GCSE 2. A Level Science (Biology or PE) 3. University degree in Sports Science <u>Aerospace Engineer</u> <i>Typical UK Pathway</i> 1. GCSE 2. A Level Maths and Physics 3. University degree or higher apprenticeship in Aerospace Engineering	1. GCSE 2. A Level Psychology or Health and Social Care 3. University degree in Psychology or Counselling 4. Professional counselling qualification <u>Author</u> <i>Typical UK Pathway</i> 1. GCSE 2. A Level English or Creative Writing 3. Writing courses, practice and publishing experience	1. GCSE 2. A Level Maths and Physics 3. University degree in Astronomy or Astrophysics <u>Astronaut</u> <i>Typical UK Pathway</i> 1. GCSE 2. A Level Maths and Science 3. University degree in Science or Engineering 4. Specialist astronaut training	1. GCSE 2. A Level Design & Technology or Art 3. University degree in Product Design <u>Pharmacist</u> <i>Typical UK Pathway</i> 1. GCSE 2. A Level Chemistry and Biology 3. Pharmacy degree 4. Professional training and registration	
--	--	---	--	---	---	--

Science Curriculum

Long Term Overview

Year 6	Living things & their habitats Could Spiderman really exist? Scientific Enquiry Link: Identifying, classifying & grouping	Electricity Could robots replace humans? Scientific Enquiry Link: Comparative & fair testing	Animals including humans Why is the heart the most important pump we own? Scientific Enquiry Link: Pattern seeking	Light Are you afraid of the dark? Scientific Enquiry Link: Observing over time	Evolution & Inheritance Have we always looked like this? Scientific Enquiry Link: Research using secondary sources	Consolidation Activity
Enrichment / Trip Opportunities	Reptile Day	Mozaik Digital Education	Visit from a Cardiologist	Mozaik Digital Education	Evolution & Inheritance Workshop	
Careers Alignment	<u>Museum Curator</u> <i>Typical UK Pathway</i> - GCSE - A Level History, Art or Science - University degree in Museum Studies, History, Art or a specialist subject <u>Taxonomist</u> <i>Typical UK Pathway</i> - GCSE - A Level Biology	<u>Renewable Energy Technician</u> <i>Typical UK Pathway</i> - GCSE - College course in Renewable Energy or Engineering - Apprenticeship and technical certification <u>Robotics Engineer</u> <i>Typical UK Pathway</i> - GCSE	<u>Paramedic</u> <i>Typical UK Pathway</i> - GCSE - A Level Science or College Health Course - University degree or apprenticeship in Paramedic Science - Professional registration <u>Cardiologist</u> <i>Typical UK Pathway</i> - GCSE	<u>Laser Engineer</u> <i>Typical UK Pathway</i> - GCSE - A Level Maths and Physics - University degree in Engineering or Physics <u>Oceanographer</u> <i>Typical UK Pathway</i> - GCSE - A Level Science (Geography, Biology or Physics) - University degree in	<u>Geneticist</u> <i>Typical UK Pathway</i> - GCSE - A Level Biology and Chemistry - University degree in Genetics or Biological Sciences <u>Forensic Scientist</u> <i>Typical UK Pathway</i> - GCSE	

Science Curriculum

Long Term Overview

	3. University degree in Biology or Zoology 4. Specialist postgraduate study	2. A Level Maths and Physics 3. University degree or higher apprenticeship in Robotics or Engineering	2. A Level Biology and Chemistry 3. Medical degree 4. Specialist cardiology training	Oceanography or Marine Science	2. A Level Science (Biology or Chemistry) 3. University degree in Forensic Science or a science subject	
--	---	---	---	---	---	--