

Dobwalls Science Long Term Overview

Concepts: Evolution, Chemistry, Ecosystems, Energy, Forces, Living things (cells)

YEAR	Autumn 1		Autumn 2		Spring 1	Spring 2	Summer 1	Summer 2
Y1	Big question: How do we choose the best material for the job? Chemistry Everyday materials Seasons		Big question: What makes each animal group special? Animals including humans		Big question: How do we use our senses? Animals including humans (senses) Seasonal Changes	Science investigation – Science week	Big question: How can we tell plants apart? Plants – identify and name common plants/ structures of plants	Big question: How do the seasons change our environment? Seasonal changes
Topic	Once Upon a Time		Bears, Bears, Bears		Where do I live?	Amazing Animals	School, School, School	Saving Lives at Sea
Concepts and skills	Chemistry		Ecosystems		Evolution	Science enquiry	Evolution	Ecosystems
SECRET Skills	Get involved		Take responsibility		Share my learning	Be organised	Go for it, finish it	Handle emotions
Y2	Big question: What do humans and animals need to stay alive? Animals including humans: basic needs		Big Question- How do we keep ourselves healthy? Humans – exercise, balanced diet, health and well being		Big question: Why do animals live in different places? Livings things and their habitats	Science investigation – Science Week	Big question: How do plants change as they grow? Plants	Big question: How do we choose the best material for a task? Use of everyday materials
Topic	Going on Safari		Care for one and all		Out and About	The Great Fire of London	Lovely Liskeard	Castles
Concepts and skills	Evolution	Ecosystems	Evolution	Energy	Ecosystems	Scientific enquiry	Ecosystems	Chemistry
SECRET Skills	- Handle risk - Share your learning		- Handle emotions - Plan, do and review			- Evaluate evidence - Connections - Plan, do and review	- Ask and explore questions - Connections	- Plan, do and review - Reach conclusions
Y3	Big question: What does a living thing need to stay alive and healthy? Animals including Humans: Balanced Diet. Hygiene. Teeth.		Big question: How does light help us see? Light and Shadow		Big question: Why are some rocks different from others? Rocks and Fossils	Science Week	Big question: How do plants grow? Plants	Big question: How are forces and magnets useful? Forces and Magnets

Topic	Land of the Pharaohs		River of Life	Stone age	Adventure		Our Cornwall		Cousin Jack
Concepts and skills	Ecosystems	Living things are made of cells - Animals keeping their cells healthy	Energy travelling from one place to another – travelling as light	Chemistry	Scientific Enquiry		Evolution	Ecosystems	Living things are made of cells - Plants keeping their cells healthy Forces: Understand objects stay in one place or moving with constant speed and direction unless a force acts on them → acceleration
SECRET Skills	- Connections		- Evaluate evidence	- Ask and explore questions	- Setting challenges		Reach conclusions		
Y4	Big question: How does sound travel? Sound		Big question: How does temperature affect the way materials behave? States of matter	Big question: How do changes to habitats effect different animal species? Living things and their habitats	Conducting investigations/ Scientific enquiry		Big question: What really happens to food after we swallow it? Humans (teeth, digestion)		Big question: How do we know electricity is there if we can't see it? Electricity (residential)
Topic	Plymouth		Disaster!	Roman Invasion	Rainforests		Anglo Saxons		European Neighbours
Concepts and skills	Energy travelling from one place to another – travelling as sound & types of sound		Evolution	Chemistry	Scientific enquiry/ Science week		Living things are made of cells - Getting nutrition to your cells		Forces: Understand objects stay in one place or moving with constant speed and direction unless a force acts on them → acceleration
SECRET Skills	- Identify problems		- Identify problems - Handle risk		- Ask and explore questions		- Go for it, finish it		- Get involved
Y5	Big question: What are properties of different materials? Properties and changes of materials		Big question: How do humans and animals change throughout lives? Animals, including humans - changes as humans develop	Big question: How can a habitat define the lives of living things? Living things and their habitats	Scientific Week	Big question: What keeps planets in orbit? Earth and Space	Earth and space carried over from previous term		Big Question - What makes a catapult fire further? Forces – catapults/graphs
Topic	North America		Ancient Greeks	Cruising the Mediterranean	Earth and Space		Anglo Saxons and Viking		Backpackers

Concepts and skills	Chemistry	Evolution/living things	Evolution	Scientific enquiry	Forces		Forces: Understand objects stay in one place or moving with constant speed and direction unless a force acts on them → acceleration
SECRET Skills	- Find solutions	- Ask and explore questions		- Handle risk		- Reach conclusions	- Be organised
Y6	Big question: How do we know light travels in a straight line? Light & Shadows	Big question: Where does electrical energy come from and where does it go? Electricity	Big question: How and why do living things change over time? Evolution and Inheritance	Scientific enquiry		Big question: How do scientists decide which group a living thing belongs to? Living Things	Big question: How does the human circulatory system keep us alive? Animals and Humans: Circulatory System: human circulatory system, measuring heart rate, healthy choices
Topic	Armistice and the first world war	Dobwalls	Mystic Maya	Wonderful World	You're Fired	Goodbye My Friend	
Concepts and skills	Energy travelling from one place to another – travelling as light	Energy travelling from one place to another – travelling as electricity	Evolution (Timescale and process)	Science week	Evolution (classification)	Living things are made of cells – getting nutrition to	
SECRET Skills	- Ask and explore questions	- Connections	- Reach conclusions	- Plan, do and review	- Take responsibility		