

Trannack School Science Rolling Programme: Yr 1-6



Yr 1 (Praa Sands) – 1 year rolling programme

Working Scientifically PoS taken from KS1

Autumn	Seasonal changes	Seasonal changes; weather; day length
Spring	Materials	Objects; materials; physical properties
Summer 1	Plants	Identify common plants; identify and describe basic structure of flowering plants and trees
Summer 2	Animals	Identify, describe and compare common vertebrates, carnivores, herbivores and omnivores; identify basic human body parts and senses

NB Topics can be taught in any order as long as they are covered by end of the year

Yr 2/3 (Portreath) – 2 year rolling programme (ensures yr 2 pos is taught each year)

Year A

Autumn 1	Materials	Properties, suitability, testing, changing
Autumn 2	Forces	Pushes, pulls, friction, surfaces
Spring 1	Animals including humans	Offspring grow into adults; survival needs; importance of exercise, healthy diet and hygiene Lister Jenner
Spring 2	Rocks and Soils	Grouping; formations; fossils; soils
Summer 1	Plants	Functions of parts; requirements for life and growth; water transport; life cycle, identification and classification
Summer 2	Living Things and their habitats Contrasting Habitats Working Scientifically	Contrasting habitats; classifying and identifying; food chains; life processes

Year B

Autumn 1	Living things and their habitats Changing habitats and plastic pollution	Changing habitats ;plastic pollution ;adaptation;interdependence
Autumn 2	Light and Dark	Sources, reflectors, safety, shadows
Spring 1	Materials	Properties, suitability, changing, testing (focus on different materials, tests and scientific skills to Ya)
Spring 2	Animals including humans	Muscles Skeletons Organs Nightingale Marie Curie
Summer 1	Plants	Functions of parts; requirements for life and growth; water

		transport; life cycle, identification and classification, adaptation
Summer 2	Magnets, working scientifically and CREST	Magnetic force, poles, testing, using to make a toy

Godrevy Class 3 year rolling programme

Working Scientifically PoS taken from Upper KS2

2016 -2017	Yr 4 PoS	Yr 6 PoS
Autumn 1	Living things and their habitats Classification; impact of environmental change;	Living things and their habitats Classification including micro-organisms and invertebrates; use classification keys; reasons for classification. Evolution and inheritance Fossils; characteristics in offspring; adaptation
Autumn 2	Animals Digestive system; teeth and functions; food chains	Animals (in more detail next year) Circulatory system; diet, drugs and exercise; transportation of nutrients
Spring 1	States of matter Compare and group materials – solids, liquids, gases; change of state in heat; water cycle	
Spring 2	Earth and Space (yr 5) Movement of earth and planets; movement of moon; day and night	Light Direction of travel in straight lines; shadows
Summer 1	Electricity Appliances; circuits; basic parts of circuit; switch; conductors and insulators	Electricity Compare and explain brightness or volume to voltage; use symbols
Summer 2	Living things and their habitats Identify and classify living things in local environment (pond dipping); food chains	Living things and their habitats; Animals (yr 5) Lifecycles; Reproduction in animals; changes

	Yr 5 PoS	Yr 6 PoS
Autumn 1	Living things and their habitats Differences in life cycles; reproduction in some plants and animals	Living things and their habitats Classification including micro-organisms and invertebrates; use classification keys; reasons for classification.
Autumn 2		Animals Circulatory system; diet, drugs and exercise; transportation of nutrients; Evolution and inheritance Fossils; characteristics in offspring; adaptation
Spring 1	Properties and changes of materials	

	Compare and group; properties; dissolve to form a solution; separation of materials; use of everyday materials; reversible and irreversible changes	
Spring 2	Sound (yr 4) Vibrations; structure of ear; pitch; volume; distance of sound	Light (recap) Direction of travel in straight lines; shadows
Summer 1	Forces Gravity; resistance and friction; levers, pulleys and gears	Electricity (recap) Compare and explain brightness or volume to voltage; use symbols
Summer 2	Living things; Animals (reproduction and changes)	

2017 -2018	Yr 5 PoS	Yr 6 PoS
Autumn 1	Living things and their habitats Differences in life cycles; reproduction in some plants and animals	Living things and their habitats Classification including micro-organisms and invertebrates; use classification keys; reasons for classification.
Autumn 2		Animals Circulatory system; diet, drugs and exercise; transportation of nutrients; Evolution and inheritance Fossils; characteristics in offspring; adaptation
Spring 1	Properties and changes of materials Compare and group; properties; dissolve to form a solution; separation of materials; use of everyday materials; reversible and irreversible changes	
Spring 2	Sound (yr 4) Vibrations; structure of ear; pitch; volume; distance of sound	Light (recap) Direction of travel in straight lines; shadows
Summer 1	Forces Gravity; resistance and friction; levers, pulleys and gears	Electricity (recap) Compare and explain brightness or volume to voltage; use symbols
Summer 2	Living things; Animals (reproduction and changes)	

Science PoS summary from National Curriculum

Yr 1	Plants	Identify common plants; identify and describe basic structure of flowering plants and trees
	Animals	Identify, describe and compare common vertebrates, carnivores, herbivores and omnivores; identify basic human body parts and senses
	Materials	Objects; materials; physical properties
	Seasonal changes	Seasonal changes; weather; day length

Yr 2	Living things and their habitats	Compare things that are living, dead, things that have never been alive; habitats; identify plants and animals; simple food chains
	Plants	Lifecycle of plants from seeds and bulbs; requirements for healthy plants
	Animals including humans	Offspring which grow into adults; survival needs; importance of exercise, healthy diet and hygiene.
	Materials	Identify and compare suitability of everyday materials; how shapes of materials can be changed
Yr 3	Plants	Functions of parts; requirements for life and growth; water transport; life cycle
	Animals	Nutrition; skeletons and muscles
	Rocks	Grouping; fossils; soils
	Light	Reflections; safety; shadows
	Forces and magnets	Move on different surfaces; magnetic forces; magnetic materials
Yr 4	Living things and their habitats	Classification; impact of environmental change; identify living things in local and wider environment
	Animals	Digestive system; teeth and functions; food chains
	States of matter	Compare and group materials – solids, liquids, gases; change of state in heat; water cycle
	Sound	Vibrations; structure of ear; pitch; volume; distance of sound
	Electricity	Appliances; circuits; basic parts of circuit; switch; conductors and insulators
Yr 5	Living things and their habitats	Differences in life cycles; reproduction in some plants and animals
	Animals	Changes as humans develop to old age
	Properties and changes of materials	Compare and group; properties; dissolve to form a solution; separation of materials; use of everyday materials; reversible and irreversible changes
	Earth and Space	Movement of earth and planets; movement of moon; day and night
	Forces	Gravity; resistance and friction; levers, pulleys and gears
Yr 6	Living things and their habitats	Classification including micro-organisms and invertebrates; use classification keys; reasons for classification.
	Animals	Circulatory system; diet, drugs and exercise; transportation of nutrients
	Evolution and inheritance	Fossils; characteristics in offspring; adaptation
	Light	Direction of travel in straight lines; shadows
	Electricity	Compare and explain brightness or volume to voltage; use symbols