



Science Key Vocabulary



(Working Scientifically) Characteristics of learning/Creative and thinking critically:

Early Years (Nursery and Reception):

Ideas, patterns, predictions, grouping, sequencing, cause and effect, decisions, solve a problem, reach a goal, teamwork, review (evaluate)

Nursery	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
	<u>Seasonal Change: (Autumn)</u> Seasons Autumn Signs of Autumn Changes Weather Sunshine Rain Windy Cloudy Senses (see, hear, touch, smell, taste) Materials Natural	<u>Seasonal Change: (Winter)</u> Seasons Winter Signs of Winter Changes Cold Weather Frost Snow Rain Windy Cloudy Senses (see, hear, touch, smell, taste) Materials Natural	<u>Materials:</u> Materials Similar Different Hard Soft Rough Smooth Shiny Dull	<u>Seasonal Change: (Spring)</u> Seasons Spring Signs of Spring Changes New life Warmer Weather changes Sunshine Rain Windy Senses (see, hear, touch, smell, taste) <u>Plants:</u> Seed Plant Grow Care	<u>Living things and their habitats.</u> Respect Care Environment Living things <u>Plants:</u> Seed Plant Grow Care	<u>Seasonal Change: (Summer)</u> Seasons Summer Signs of Summer Changes Hotter Weather changes Sunshine Sun protection Senses (see, hear, touch, smell, taste) <u>Forces:</u> Forces (magnets) Push Pull Move Fast Slow

Reception	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
	<u>Seasonal change:</u> <u>(Autumn)</u> Seasons Autumn Signs of Autumn Changes Weather Temperature Sunshine Rain Windy Cloudy Warmer/cooler Environment Senses (see, hear, touch, smell, taste)	<u>Seasonal change:</u> <u>(Winter)</u> Seasons Winter Signs of Winter Changes Weather Temperature Frost Sleet Snow Rain Windy Cloudy Senses (see, hear, touch, smell, taste) <u>Plants and animals:</u> Similar Different Environment	<u>Natural world:</u> Environment Changes Similar Different	<u>Seasonal change:</u> <u>(Spring)</u> Seasons Spring Signs of Spring Changes New life Temperature Weather changes Sunshine Rain Windy Senses (see, hear, touch, smell, taste) <u>Plants and animals</u> Seed Plant Grow Care Water Soil Sunlight	<u>Plants and animals:</u> Environment Similar Different Compare Contrast	<u>Seasonal change:</u> <u>(Summer)</u> Seasons Summer Signs of Summer Changes Temperature Weather changes Sunshine Senses (see, hear, touch, smell, taste)

Working Scientifically skills which will be taught throughout the year

Key Stage One (Years 1 and 2)

Question, Predict, Method, Variables, Fair Test, Record, Report, Conclusion, Evaluate, Investigate, Enquiry, Cycle, Observe, Identify, Classify, Sort, Group, Diagram, Chart, Data, Compare, Contrast.

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 1	<u>Animals including humans</u>	<u>Animals including humans</u>	<u>Plants</u>	<u>Plants</u>	<u>Everyday Materials</u>	<u>Everyday Materials</u>
	Head	Fish	Common plants	Flowering plants	Object	Object
	Ear	Reptile	Wild plants	Environment	Material	Material
	Eye	Mammal	Deciduous	Growth	Wood	Compare
	Mouth	Bird	Evergreen	Leaves	Plastic	Hard/soft
	Nose	Amphibian	Environment	Flowers (blossom)	Glass	Stretchy/stiff
	Leg	Wings	Growth	Petals	Paper	Shiny/dull
	Knee	Beak	Leaves	Fruit	Fabric	Rough/smooth
	Arm	Carnivore	Flowers (blossom)	Roots	Metal	Bendy/not bendy
	Elbow	Herbivore	Petals	Bulb	Rock	(flexible)
	Neck	Omnivore	Fruit	Seed	Brick	Waterproof/not
	Face		Roots	Trunk	Elastic	waterproof
	Teeth		Bulb	Stem		Absorbent/not
	Hair		Seed	Branches		absorbent
	Senses		Trunk			Opaque/transparent
			Stem			Translucent

	Fish Reptile Mammal Bird Amphibian Wings Beak <u>Seasonal Change</u> <u>(throughout year):</u> Seasons Summer Spring Autumn Winter Weather Sun Day Moon Night Light Dark Rain Wind Snow Frost Sleet Fog Cloudy		Branches			
--	---	--	----------	--	--	--

Year 2	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
	<u>Animals including humans</u> Survival Water Air (oxygen) Food Adult Baby Offspring Kitten Calf Puppy Foal	<u>Animals including humans</u> Exercise Hygiene Types of food	<u>Living things and their habitats</u> Living Dead Never been alive Habitat Micro-habitat Suited Adapted	<u>Living things and their habitats</u> Energy Food chain Prey Predator Woodland Pond Desert Seashore Ocean Rainforest	<u>Everyday materials</u> (As for Y1) Stiff Shiny Dull Rough Smooth Waterproof Absorbent Transparent Translucent Opaque Brick Fabric Foil Squashing Bending Twisting Stretching Elastic	<u>Plants</u> (As for Y1) Seed Bulb Water Light Temperature Growth

Working Scientifically skills which will be taught throughout the year.

Key Stage 2 (Years 3 and 4)

Question, Prediction, Method, Enquiry, Comparative, Fair Test, Observation, Pattern Seeking, Data, Record, Identify, Classify, Variables, Measurements, Accuracy, Anomaly

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 3	<u>Forces</u> Compare Surfaces Magnet Magnetic Force Push Pull Contact Attract Repel Poles (North and South) Distance Friction Resistance	<u>Forces</u> Compare Surfaces Magnet Magnetic Force Push Pull Contact Attract Repel Poles (North and South) Distance Friction Resistance	<u>Animals including humans</u> Bones Muscles Ribs Skeleton Skull Support Protection Movement Nutrients Herbivore Carnivore Omnivore Teeth Canine Incisor Molar Diet	<u>Plants</u> Air Light Water Soil Nutrients Reproduction Seed formation Seed dispersal Germination Pollination Transportation Species Location (photosynthesis) Life cycle Function	<u>Rocks</u> Rocks Soil Sandstone Limestone Sedimentary Igneous Metamorphic Granite Marble Pumice Slate Crystals Properties Permeable Hardness Fossils Organic matter	<u>Light</u> Light Dark Shadows Blocking Mirror Reflect Reflective Reflection Absence of light protect

Year 4	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
	<u>Electricity</u> Appliances Cells (batteries) Wires Switches Circuit Series Parallel Buzzers Bulbs Mains electricity	<u>Electricity</u> Appliances Cells (batteries) Wires Switches Circuit Series Parallel Buzzers Bulbs Mains electricity Insulators Conductors	<u>Living things and their habitats</u> Fish, reptiles, mammals, birds, amphibians, insects Environment Habitat Variety Classification Vertebrate Invertebrate Exo skeleton Human impact Positive Negative	<u>Animals including humans</u> Mouth Tongue Teeth Canine Incisor Molar Oesophagus Stomach Small intestine Large intestine Digestive system Function Herbivore Carnivore Omnivore Food chain Producers	<u>States of Matter</u> Solid Liquid Gas Temperature Heating Freezing point Boiling point Particles Evaporation Condensation Thermometer Thermal insulation Degrees Celsius	<u>Sound</u> Volume Vibration Sound wave Loud Soft Pitch Tone Speaker Amplitude Frequency Travel Fainter Distance