



Margaret Wix Primary School

Progression in Science Vocabulary

Progression in Science vocabulary – Working Scientifically

EYFS	Key stage 1	Lower Key stage 2	Upper Key stage 2
Look closely Observe Watch Touch Feel Smell Listen Same Different Compare Ask questions Record Sort Group	Observe Changes Patterns Grouping Sorting Compare Same Different Identify (name) Measure Data Record results Drawing Picture Table Tally chart Present Pictogram Block chart Venn diagram Ask questions Test Investigate Explore Equipment Resources Magnifying glass Hand lens Ruler Tape measure Metre stick Pipette Syringe Spoon Teaspoon Answer questions Interpret results Scientific enquiry	Practical work Fair testing Relationships Accurate Thermometer Data logger Stopwatch Timer Estimate Data Diagram Identification key Chart Bar chart Prediction Similarity Difference Evidence Information Findings Criteria Values Properties Characteristics Conclusion Explanation Reason Evaluate Improve	Variables Independent variable Dependent variable, Control variable Evidence Justify Argument (science) Causal relationship Accuracy Precision scatter graphs Bar graphs Line graphs Force meter

	Pattern seeking Comparative testing Observing over time Classifying Researching using secondary sources		
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Progression in Science vocabulary – Plants

EYFS Nursery (purple) <i>Reception (italic)</i>	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Plant Leaf Stem Branch Root Bark Flower Petal Seed Berry Fruit Vegetable Bulb Plant Hole Dig Water Weed Grow Shoot Die Dead Soil Names of plants they grow Tree Bush Herb Names of plants they see	Leaf Flower Blossom Petal Fruit Berry Root Seed Trunk Branch Stem Bark Stalk Bud Names of trees in the local area Names of garden and wild flowering plants in the local area	Light Shade Sun Warm Cool Water Space Grow Healthy Bulb Germinate Shoot Seedling	Photosynthesis Pollen Insect/wind Pollination Male Female Seed formation Seed dispersal Wind dispersal Animal dispersal Water dispersal Air Nutrients Minerals Soil Absorb Transport	Classification Classification keys (Y4 - Living things and their habitats)	Life cycle Reproduce Sexual Fertilises Asexual Plantlets Runners Tubers Cuttings (Y5 - Living things and their habitats)	Flowering Non-flowering Mosses Ferns Conifers (Y6 - Living things and their habitats)

Progression in Science vocabulary – **Living things and their habitats**

EYFS Nursery (purple) <i>Reception (italic)</i>	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Natural Plant Animal Leaves Seeds Conkers Acorns Twigs Bark Shells Feathers Pebbles Stones Same Different Pattern Plant Leaf Stem Branch Root Bark Flower Petal Seed Berry Fruit Vegetable Bulb Plant Hole Dig Water	Names of garden and wild flowering plants in the local area (Y1 - Plants) Head Body Eyes Ears Mouth Teeth Leg Tail Wing Claw Fin Scales Feathers Fur Beak Paws Hooves Names of animals experienced first-hand from each vertebrate group (Y1 - Animals, including humans) Weather Sunny	Living Dead Never been alive Suited Suitable Basic needs Food Food chain Shelter Move Feed Water Air Survive Survival Names of local habitats (e.g. pond, woodland etc.) Names of micro-habitats (e.g. under logs, in bushes etc.) Conditions Light Dark Shady Sunny Wet Damp Dry Hot Cold Names of living things in the	Photosynthesis Pollen Insect/wind pollination Male Female Seed formation Seed dispersal Wind dispersal, Animal dispersal Water dispersal Air Nutrients Minerals Soil Absorb Transport (Y3-Plants)	Classification Classification keys Environment Habitat Human impact Positive Negative Migrate Hibernate Herbivore Carnivore Omnivore Producer Predator Prey (Y4 - Animals, including humans)	Life cycle Reproduce Sexual Sperm Fertilises Egg Live young Metamorphosis Asexual Plantlets Runners Cuttings	Vertebrates Fish Amphibians Reptiles Birds Mammals Warm-blooded Cold-blooded Invertebrates Insects Spiders Snails Worms Flowering Non-flowering Mosses Ferns Conifers

<p>Weed Grow Shoot Die Dead Soil (Nursery - Plants)</p> <p>Plant Tree Bush Flower Vegetable Herb Weed Animal Names of plants and animals they see Name of a contrasting environment (e.g. beach, forest)</p>	<p>Rainy Raining Shower Windy Snowy Cloudy Hot Warm Cold Storm Thunder Lightning Hail Sleet Snow Icy Frost Puddles Rainbow Seasons Winter Summer Spring Autumn Sun Sunrise Sunset Day length (Y1 - Seasonal changes)</p>	<p>habitats and micro- habitats studied</p> <p>Light Shade Sun Warm Cool Water Space Grow Healthy Bulb Germinate Shoot Seedling (Y2 - Plants)</p> <p>Offspring Reproduction Growth Baby Toddler Child Teenager Adult Old person Names of animals and their babies (e.g. chick/chicken, cat/kitten, caterpillar/butterfly) (Y2 - Animals, including humans)</p>				
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Progression in Science vocabulary – **Animals including Humans**

EYFS Nursery (purple) <i>Reception (italic)</i>	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Egg Chick Bird Caterpillar Cocoon C hrysalis, Butterfly Frog spawn Tadpole Froglet Frog Grow Change Die Names of animals and their young Fur Feathers Scales Tail Wings Beak Claws Paws Hooves Swim Walk Run Jump Fly Patterns Spots	Head Body Eyes Ears Mouth Teeth Leg Tail Wing Claw Fin Scales Feathers Fur Beak Paws Hooves Names of animals experienced first- hand from each vertebrate group Parts of the human body including those within the school's RSE policy Senses Touch See Smell Taste Hear	Living Dead Never been alive Suited Suitable Basic needs Food Food chain Shelter Move Feed Water Air Survive Survival (Y2-Living things and their habitats)	Nutrition Nutrients Carbohydrates Sugars Protein Vitamins Minerals Fibre Fat Water Skeleton Bones Muscles Joints Support Protect Move Skull Ribs Spine	Digestive system Digestion Mouth Teeth Saliva Oesophagus Stomach Small intestine Large intestine Rectum Anus Incisor Canine Molar Premolar Herbivore Carnivore Omnivore Producer Predator Prey	Puberty Vocabulary to describe sexual characteristics in line with the school's RSE policy Life cycle Reproduce Sexual Sperm Fertilises Egg Live young (Y5-Living things and their habitats)	Heart Pulse Rate Pumps Blood Blood vessels Transported Lungs Oxygen Carbon dioxide Cycle Circulatory system Diet Drugs Lifestyle

<p>Stripes Grow Change Baby Toddler Child Adult Old person Smell Taste Touch Feel Hear See Blind Deaf</p> <p>Names of animals Live On land In water Jungle Desert North Pole South Pole Sea Hot Cold Wet Dry Snow Ice Hair (e.g. black, brown, dark, light, blonde, ginger, grey, white, long,</p>	<p>Fingers Skin Eyes Nose Ears Tongue</p>					
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short, straight, curly) Eyes (e.g. blue, brown, green, grey) Skin Big/tall Small/short Bigger/smaller, Baby Toddler Child Adult Old person Old Young Brother Sister Mother Father Aunt Uncle Grandmother Grandfather Cousin Friend Family Boy Girl Man Woman						
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Progression in Science vocabulary – Evolution and Inheritance

EYFS Nursery <i>Reception (italic)</i>	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Natural Plant Animal Leaves Seeds Conkers Acorns Twigs Bark Shells Feathers Pebbles Stones Same Different Pattern Nursery-Living things) <i>Plant</i> <i>Tree</i> <i>Bush</i> <i>Flower</i> <i>Vegetable</i> <i>Herb</i> <i>Weed</i> <i>Animal</i> Names of plants and animals they see Name of a contrasting	Leaf Flower Blossom Petal Fruit Berry Root Seed Trunk Branch Stem Bark Stalk Bud (Y1-Plants)	Light Shade Sun Warm Cool Water Space Grow Healthy Bulb Germinate Shoot Seedling (Y2-Plants) Living Dead Never been alive Suited Suitable Basic needs Food Food chain Shelter Move Feed Water Air Survive Survival Names of local habitats (e.g.	Photosynthesis Pollen Insect/wind Pollination Male Female Seed formation Seed dispersal Wind dispersal Animal dispersal Water dispersal Air Nutrients Minerals Soil (Y3-Plants) Soil Fossil Bone Flesh Minerals (Y3 - Rocks)	Environment Habitat Human impact Positive Negative Migrate Hibernate (Y4-Living things) Herbivore Carnivore Omnivore Producer Predator Prey (Y4-Animals including humans)	Life cycle Reproduce Sexual Sperm Fertilises Egg Live young Metamorphosis Asexual Plantlets Runners Cuttings (Y5-Living things)	Offspring Sexual Reproduction Vary Characteristics Adapted Inherited Species Evolve Evolution

<i>environment (e.g. beach, forest) (Reception-Living things)</i>		<i>pond, woodland etc.) Names of micro-habitats (e.g. under logs, in bushes etc.) Conditions Light Dark Shady Sunny Wet Damp Dry Hot Cold (Y2-Living things)</i>				
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Progression in Science vocabulary – Seasonal changes

EYFS Nursery <i>Reception (italic)</i>	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
<p>Grow Shoot Die Dead (Nursery - Plants)</p> <p>Egg Chick Bird Caterpillar Cocoon Chrysalis Butterfly Frog Spawn Tadpole Froglet Frog Grow Change Die Names of animals and their young (Nursery - Animals, excluding humans)</p> <p><i>Spring</i> <i>Summer</i> <i>Autumn</i> <i>Winter</i></p>	<p>weather, sunny, rainy, raining, shower, windy, snowy, cloudy, hot, warm, cold, storm, thunder, lightning, hail, sleet, snow, icy, frost, puddles, rainbow, seasons, winter, summer, spring, autumn, Sun, sunrise, sunset, day length</p>					

Seasons Sunny Cloudy Hot Warm Cold Shower Raining Storm Thunder Lightning Hail Sleet Snow Icy Frost Puddles Windy Rainbow Animals Young Plants Flowers						
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Progression in Science vocabulary – **Materials**

EYFS Nursery (purple) <i>Reception (italic)</i>	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Mix Stir Cook Hot Oven Microwave Change Burn Melt Hard Runny Set Freeze Freezer Cold Blended Hard Soft Bendy Stiff Wobbly Wood Plastic Paper Card Fabric Ice Water Frozen Icicle Snow	Object Material Wood Plastic Glass Metal Water Rock Brick Paper Fabric Elastic Foil Card/cardboard Rubber Wool Clay Hard Soft Stretchy Floppy Waterproof Absorbent Breaks/tears Rough Smooth Shiny Dull See-through Not see-through	Opaque Transparent Translucent Reflective Non-reflective Flexible Rigid Shape Push/pushing Pull/pulling Twist/twisting Squash/squashing Bend/bending Stretch/stretching	Squash/squashing Bend/bending Stretch/stretching Rock Stone Pebble Boulder Grain Crystals Layer Texture Absorbs Water Fossil Bone Flesh Minerals Marble Chalk Granite Sandstone Slate Types of soil (e.g. peaty, sandy, chalky, clay) (Y3 - Rocks) Magnetic force Magnet Attract Magnetic Material	Solid Liquid Gas Heating Cooling State change Melting Freezing Melting point Boiling Boiling point Evaporation Condensation Temperature Water cycle Electrical Conductor Electrical insulator Metal Non-metal (Y4 - Electricity)	Thermal Insulator/conductor Change of state Mixture Dissolve Solution Soluble Insoluble Filter Sieve Reversible/non-reversible change Burning Rusting	

Melt Wet Cold Slippery Smooth Big Bigger Biggest Smaller Smallest Hard Soft Bendy Rigid Wood Plastic Paper Card Metal Strong Weak Hot Waterproof Soggy Not waterproof Best Change			Meta Iron Steel (Y3 - Forces and magnets)			
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Progression in Science vocabulary – Rocks

EYFS Nursery (purple) Reception (<i>italic</i>)	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Natural Shells Pebbles Stones	Object Material Rock Brick Clay Hard Soft Waterproof Absorbent Rough Smooth Shiny Dull See-through Not see-through (Y1-Materials)	Opaque Transparent Translucent Reflective Non-reflective (Y2 - Materials)	Rock Stone Pebble Boulder Grain Crystals Layers Hard Soft Texture Absorbs water Fossil Bone Flesh Minerals Marble Chalk Granite Sandstone Slate Types of soil (e.g. peaty, sandy, chalky, clay)			Evolution

Progression in Science vocabulary – Light

EYFS Nursery (purple) <i>Reception (italic)</i>	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Light Torch Bulb Lamp Spotlight Shiny Bright Brighter Brightest Sun Shine Glow Mirror Sun Sunny Light Shadow Shady Clouds Torch See-through Not see-through Light source	Senses See Eyes (Y1 - Animals, including humans) Shiny Dull See-through Not see-through (Y1 - Materials)	Opaque Transparent Translucent Reflective Non-reflective (Y2 - Uses of everyday materials)	Light Light source Dark Absence of light Surface Shadow Reflect Mirror Sun Sunlight Dangerous			Straight line Light rays

Progression in Science vocabulary – Forces

EYFS Nursery (purple) <i>Reception (italic)</i>	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Object Float Sink Water Up Down Top Bottom Push Pull Magnet Spring Squash Bend Twist Stretch Turn Spin Smooth Rough Fast Slow <i>Float</i> <i>Sink</i> <i>Up</i> <i>Down</i> <i>Top</i> <i>Bottom</i> <i>Surface</i> <i>Move</i> <i>Roll</i>		Flexible Rigid Shape Push/pushing Pull/pulling Twist/twisting Squash/squashing Bend/bending Stretch/stretching (Y2-Materials)	Force Push Pull Twist Contact force Non-contact Force Magnetic force Magnet Strength Bar magnet Ring magnet Button magnet Horseshoe Magnet Attract Repel Magnetic Material Metal Iron Steel Poles North pole South pole		Force Gravity Earth Air resistance Water resistance Friction Mechanisms Simple machines Levers Pulleys Gears	

<i>Drop</i> <i>Fly</i> <i>Turn</i> <i>Spin</i> <i>Fall</i> <i>Fast</i> <i>Slow</i> <i>Faster</i> <i>Slower</i> <i>Fastest</i> <i>Slowest</i> <i>Further</i> <i>Furthest</i> <i>Wind</i> <i>Air</i> <i>Water</i> <i>Blow</i> <i>Bounce</i>						
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Progression in Science vocabulary – Sound

EYFS Nursery (purple) <i>Reception (italic)</i>	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
<p>Sound Noise Loud Quiet High Low Music Bang Blow Pluck Soft Hard Fast Slow Names of instruments</p> <p><i>Sound Noise Listen Hear Music Voice Bird song Traffic Sirens Thunder High Low Loud Quiet Soft</i></p>	<p>Senses Hear Ear (Y1 - Animals, including humans)</p>			<p>Sound Source Vibrate Vibration Travel Pitch (high, low) Volume Faint Quiet Loud Insulation</p>		

<i>Volume</i> <i>Crackle</i> <i>Thunder</i> <i>Hum</i> <i>Buzz</i> <i>Roar</i>						
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Progression in Science vocabulary – Electricity

EYFS Nursery (purple) Reception (<i>italic</i>)	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Battery Plug Socket Electricity Wire Sound Light Move				Electricity Electrical Appliance/device Mains Plug Electrical circuit Complete circuit Component Cell Battery Positive Negative Connect/connections Loose connection Short circuit Crocodile clip Bulb Switch Buzzer Motor Conductor Insulator Metal Non-metal Symbol		Circuit diagram Circuit symbol Voltage

Progression in Science vocabulary – Earth and Space

EYFS Nursery (purple) Reception (<i>italic</i>)	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Sun Moon Earth Star Plane Sky Day Nigh Space Round Bounce Float			Light Light source Sun Sunlight Dangerous (Y3 - Light)		Sun Moon Earth Planets (Mercury, Jupiter, Saturn, Venus, Mars, Uranus, Neptune) Spherical Solar System Rotate Star Orbit	