



Science Key Vocabulary

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

Early Years (Nursery and Reception):

What can you see? What does it sound like? What does it smell like?
 What does it taste like? What does it feel like? What does it do? What is happening?
 How did it happen? What have we found out? What will happen if....?

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

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| | Senses (see, hear, touch, smell, taste) Materials Natural | Cloudy Senses (see, hear, touch, smell, taste) Materials Natural | | Windy Senses (see, hear, touch, smell, taste) Plants: Seed Plant Grow Care | | Forces: Forces (magnets) Push Pull Move Fast Slow |
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| | | Autumn 1 | Autumn 2 | Spring 1 | Spring 2 | Summer 1 | Summer 2 |
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| Reception | Understanding of the world – The natural world. | <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 | <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 | <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) |

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| | | Environment | | Water Soil Sunlight | | |
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| 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. | | | | | | |

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| y e a r 1 | Autumn 1 | Autumn 2 | Spring 1 | Spring 2 | Summer 1 | Summer 2 |
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| | <u>Animals including humans</u> Head Ear Eye Mouth Nose Leg Knee Arm Elbow Neck Face Teeth Hair Senses Fish Reptile Mammal Bird Amphibian Wings Beak <u>Seasonal Change (throughout year):</u> Seasons Summer Spring Autumn Winter Weather Sun | <u>Animals including humans</u> Fish Reptile Mammal Bird Amphibian Wings Beak Carnivore Herbivore Omnivore | <u>Plants</u> Common plants Wild plants Deciduous Evergreen Environment Growth Leaves Flowers (blossom) Petals Fruit Roots Petals Fruit Roots Bulb Seed Trunk Stem Branches | <u>Plants</u> Flowering plants Environment Growth Leaves Flowers (blossom) Petals Fruit Roots Bulb Seed Trunk Stem Branches | <u>Everyday Materials</u> Object Material Wood Plastic Glass Paper Fabric Metal Rock Brick Elastic | <u>Everyday Materials</u> Object Material Compare Hard/soft Stretchy/stiff Shiny/dull Rough/smooth Bendy/not bendy (flexible) Waterproof/not waterproof Absorbent/not absorbent Opaque/transparent Translucent |
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| | Day Moon Night Light Dark Rain Wind Snow Frost Sleet Fog Cloudy | | | | | |
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| | Autumn 1 | Autumn 2 | Spring 1 | Spring 2 | Summer 1 | Summer 2 |
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| Year 2 | <u>Animals including humans</u> Survival Water Air (oxygen) Food Adult Baby Offspring Kitten Calf Puppy | <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 | <u>Plants</u> (As for Y1) Seed Bulb Water Light Temperature Growth |

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| | Foal | | | | Brick Fabric Foil Squashing Bending Twisting Stretching Elastic | |
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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 |
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| Year 3 | <u>Forces</u> Compare Surfaces Magnet Magnetic Force Push Pull Contact Attract Repel | <u>Forces</u> Compare Surfaces Magnet Magnetic Force Push Pull Contact Attract Repel | <u>Rocks</u> Rocks Soil Sandstone Limestone Sedimentary Igneous Metamorphic Granite Marble Pumice Slate | <u>Animals including humans</u> Bones Muscles Ribs Skeleton Skull Support Protection Movement Nutrients Herbivore | <u>Plants</u> Air Light Water Soil Nutrients Reproduction Seed formation Seed dispersal Germination Pollination Transportation | <u>Light</u> Light Dark Shadows Blocking Mirror Reflect Reflective Reflection Absence of light protect |

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| | Poles (North and South) Distance Friction Resistance | Poles (North and South) Distance Friction Resistance | Crystals Properties Permeable Hardness Fossils Organic matter | Carnivore Omnivore Teeth Canine Incisor Molar Diet | Species Location (photosynthesis) Life cycle Function | |
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| 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 | <u>Living things and their habitats</u> Fish, reptiles, mammals, birds, amphibians, insects Environment Habitat Variety Classification Vertebrate Invertebrate | <u>Animals including humans</u> Mouth Tongue Teeth Canine Incisor Molar Oesophagus Stomach Small intestine | <u>States of Matter</u> Solid Liquid Gas Temperature Heating Freezing point Boiling point Particles Evaporation Condensation | <u>Sound</u> Volume Vibration Sound wave Loud Soft Pitch Tone Speaker Amplitude Frequency |

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| | | Insulators Conductors | Exo skeleton Human impact Positive Negative | Large intestine Digestive system Function Herbivore Carnivore Omnivore Food chain Producers | Thermometer Thermal insulation Degrees Celsius | Travel Fainter Distance |
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