***	Science Overview					
* * SEATON	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Nursery	 Me and My Community Say how they have changed over time. Show care for living things and the environment. Describe how they can look after their environment. Exploring Autumn Begin to observe and talk about living things in the local environment. Name a variety of domestic and wild animals. Care for growing seeds and plants and describe observable features of different types of plants and trees. (optional) 	 Once upon a time Begin to notice how data can be collected and recorded electronically. Sparkle and Shine Explore and try a range of foods and suggest where they come from. Explore and sort everyday items, with support, into groups of the same material. (optional) 	 Starry Nights Begin to observe and talk about living things in the local environment. Begin to talk about and name the body parts of common animals, including pets. Make simple comparisons between objects and materials, such as bigger and smaller, and softer and harder. Name a variety of domestic and wild animals. Begin to notice how data can be collected and recorded electronically. (optional) Talk about some of the things that they have observed using simple scientific vocabulary. (optional) Talk about things they can do on winter evenings and things they can do on summer evenings and begin to notice the difference in day length. (optional) Winter Wonderland Name a variety of domestic and wild animals. Talk about some of the things they can do on summer evenings and begin to notice the difference in day length. (optional) Talk about some of the things they can do on summer evenings and begin to notice the difference in day length. (optional) Talk about some of the things they can do on summer evenings and begin to notice the difference in day length. (optional) Talk about things they can do on winter evenings and things that they have observed using simple scientific vocabulary. Talk about things they can do on winter evenings and things they can do on summer evenings and begin to notice the difference in day length. Talk about things they can do on winter evenings and things they can do on summer evenings and begin to notice the difference in day length. Talk about the weather as being warm or cold. (optional) 	 Dangerous Dinosaurs Talk about some of the things that they have observed using simple scientific vocabulary. Puddles and Rainbows Explore and talk about materials which are waterproof. Say what the daily weather is like. 	 Sunshine and Flowers Begin to observe and talk about living things in the local environment. Care for growing seeds and plants and describe observable features of different types of plants and trees. Begin to talk about and draw plants with attention to their parts. (optional) Begin to talk about ways to care for a plant or animal. (optional) Talk about some of the things that they have observed using simple scientific vocabulary. (optional) Shadows and Reflections Explore and sort everyday items, with support, into groups of the same material. Play with objects or their own body outside to create shadows. Talk about some of the things that they have observed using simple scientific vocabulary. (optional) 	 Big Wide World Show care for living things and the environment. Name a variety of domestic and wild animals. (optional) Show care for living things and the environment. (optional) Splash! Talk about and play with objects that float and sink and describe different forces that they can feel. Talk about some of the things that they have observed using simple scientific vocabulary. (optional) Begin to talk about ways to care for a plant or animal. Care for growing seeds and plants and describe observable features of different types of plants and trees. Name a variety of domestic and wild animals. (optional)
Reception	 Let's Explore (Build it up) Begin to notice and talk about the different places around the world, including oceans and seas. Describe how the weather, plants and animals of one place is different to another using simple geographical terms. Discuss how the local environment has changed over time using photographs and first-hand experiences. 	 Marvellous Machines (Puppets and Pop Ups) Explore and describe electrical and non-electrical light sources. Identify that materials have different properties and explore and sort magnetic and non-magnetic materials through play and exploration. Represent scientific observations by mark making, drawing or creating 	 Long Ago (Stories and rhymes) Order and sequence a familiar event using words relating to the passage of time, including yesterday, last week, before and then. Use age-appropriate software to create images and record sounds and videos Recognise and discuss how they have changed from when they were babies 	 Ready Steady Grow (Signs of spring) Begin to identify the origins of some foods. Describe some ways that plants or animals should be cared for in order for them to survive. Describe, predict and sort things that float and sink and talk about the forces that they can feel. Match animals to their young. 	 Animal Safari (Creep, Crawl and Wriggle) Describe how the weather, plants and animals of one place is different to another using simple geographical terms. Describe some ways that plants or animals should be cared for in order for them to survive. Describe ways to look after the immediate environment. 	 On the beach (Move it / Moving on) Begin to collect simple geographical data during fieldwork activities Begin to notice and talk about the different places around the world, including oceans and seas Describe how the weather, plants and animals of one place is different to another using simple geographical terms

Make a shadow bigger or smaller using toys, play equipment and a light source.

- Observe and describe living • things and their habitats within the local environment.
- Take photographs, draw • simple picture maps and collect simple data during fieldwork activities.
- With support, observe, record and talk about materials and living things.
- Compare and group objects • and materials according to simple given criteria.
- Describe a contrasting • environment to their own.
- Explore and discuss similarities between aspects of their life and life in the past, using books, stories and pictures.
- Explore the natural world around them and give simple descriptions, following observation, of changes.
- Compare and group objects and materials according to simple given criteria.
- Name and sort everyday items into groups of the same material.
- With support, use simple • equipment, such as timers, rulers and containers, to measure length, height, capacity and time.

simple charts and tables. Offer explanations for why things happen, making use of vocabulary, such as, because, then and next.

- Use age-appropriate software independently.
- With support, observe, record and talk about materials and living things.
- With support, use simple equipment, such as timers, rulers and containers, to measure length, height, capacity and time.
- Make a shadow bigger or smaller using toys, play equipment and a light source.
- Use age-appropriate software to create images and record sounds and videos.

- Name and sort everyday items into groups of the same material
- Describe ways to look after the immediate environment.
- Discuss how the local • environment has changed over time using photographs and first-hand experiences.
- Represent scientific observations by mark making, drawing or creating simple charts and tables. Offer explanations for why things happen, making use of vocabulary, such as, because, then and next.

• Observe and describe living things and their habitats within the local environment.

- **R**epresent scientific observations by mark making, drawing or creating simple charts and tables. Offer explanations for why things happen, making use of vocabulary, such as, because, then and next.
- With support, use simple equipment, such as timers, rulers and containers, to measure length, height, capacity and time.
- Describe simply how weather changes as the seasons change.
- Explore the natural world around them and give simple descriptions, following observation, of changes.
- Name and describe natural phenomena, such as the size of shadows, the colours of a rainbow, the speed of clouds moving across the sky and the strength of a wave.
- Record observations about the way the local environment changes throughout each season.
- With support, observe, record and talk about materials and living things.
- Describe how different types of weather affect the local environment.
- Name and describe basic features of plants and trees.
- Notice and begin to describe patterns of weather in summer and winter.
- Identify common features
- for different groups of animals, including wild and domestic animals. smaller using toys, play equipment and a light source. that they eat. Match animals to their young With support, observe, record and talk about materials and living things. Begin to notice and talk about the different places around the world, including oceans and seas. Describe a contrasting environment to their own. Describe how they can look after their environment. Observe and describe living things and their habitats within the local environment. simple picture maps and collect simple data during fieldwork activities. Use age-appropriate software independently. software to create images and record sounds and videos equipment, such as timers, rulers and containers, to measure length, height, capacity and time. around them and give simple descriptions, following observation, of changes. for different groups of animals, including wild and domestic animals. Observe and describe living things and their habitats within the local environment Represent scientific observations by mark making, drawing or creating simple charts and tables. Offer explanations for why things happen, making use
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- Describe ways to look after the immediate environment
- Describe, predict and sort • things that float and sink and talk about the forces that they can feel.
- Identify common features for different groups of animals, including wild and domestic animals.
- Match animals to the foods that they eat.
- Observe and describe living things and their habitats within the local environment.
- Order and sequence a familiar event using words relating to the passage of time, including yesterday, last week, before and then
- Represent scientific • observations by mark making, drawing or creating simple charts and tables. Offer explanations for why things happen, making use of vocabulary, such as, because, then and next
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- Describe a contrasting environment to their own.
- Explore the natural world around them and give simple descriptions, following observation, of changes
- Name and sort everyday items into groups of the same material.
- Take photographs, draw simple picture maps and collect simple data during fieldwork activities.
- Use age-appropriate • software independently.
- Use age-appropriate software to create images and record sounds and videos.

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Year 1	 Everyday Materials Materials; Natural materials; Grouping materials; Properties of materials; Venn diagrams; Comparing and testing materials; Talk about what they have done and say, with help, what they think they have found out. With support, use simple equipment to measure and make observations. View progression Identify and name what an object is made from, including wood, plastic, glass, metal, water and rock. Ask simple scientific questions. View progression With support, gather and record simple data in a range of ways (data tables, diagrams, Venn diagrams). View progression Observe objects, materials, living things and changes over time, sorting and grouping them based on their features. Compare and group materials in a variety of ways, such as based on their physical properties; being natural or man- made and being recyclable or non- recyclable. View progression Investigate and describe the simple physical properties of some everyday materials, such as hard or soft; stretchy or stiff; rough or smooth; 	 Humans; Labelling body parts; Counting body parts; Similarities and differences in humans; Five senses - sight, hearing, touch, smell, taste; Senses and danger; Sensory loss and assistive tools; Sense of touch investigation; With support, follow instructions to perform simple tests and begin to talk about what they might do or what might happen. View progression Compare and group materials in a variety of ways, such as based on their physical properties; being natural or man- made and being recyclable or non- recyclable. Observe objects, materials, living things and changes over time, sorting and grouping them based on their features. Talk about what they have done and say, with help, what they think they have found out. View progression 	 Seasonal Changes Seasons; Seasonal changes in deciduous and evergreen trees; Seasonal changes in animals; Weather; Seasonal weather; Day length; Investigating the Sun; Measuring wind; Measuring temperature; Measuring precipitation; Weather forecasting; Observe changes across the four seasons. Observe the local environment throughout the year and ask and answer questions about living things and seasonal change. Observe objects, materials, living things and seasonal change. Observe objects, materials, living things and changes over time, sorting and grouping them based on their features. View progression Identify, compare, group and sort a variety of common wild and garden plants, including deciduous and evergreen trees, based on observable features. Describe, following observation, how plants and animals change over time. Observe changes across the four seasons. Describe in simple terms how a physical process or human behaviour has affected an area, place or human activity. View progression Observe and describe different types of weather. 	 Seasons; Seasonal changes in deciduous and evergreen trees; Seasonal changes in animals; Weather; Seasonal weather; Day length; Investigating the Sun; Measuring wind; Measuring temperature; Measuring precipitation; Weather forecasting; Observe and describe how day length changes across the year. Describe ways to stay safe in some familiar situations. View progression With support, follow instructions to perform simple tests and begin to talk about what they might do or what might happen. With support, use simple equipment to measure and make observations. With support, gather and record simple data in a range of ways (data tables, diagrams, Venn diagrams). Observe and describe different types of weather. Investigate weather using toys, models or simple equipment. Talk about what they have done and say, with help, what they think they have found out. Ask simple scientific questions. 	 of vocabul because, t With supprecord and materials a Plant Wild and garden per changes; Plant pare bulbs; Investigating Importance of plant Identify, and sort a common plants, in deciduou trees, base observability Describe, observati and anime time Observe ferviron the year a answer q living this change. Identify, and sort a common plants, in deciduou trees, base observability Observe ferviron the year a answer q living this change. Identify, and sort a common plants, in deciduou trees, base observability With supprecord sin range of tables, di diagrams Label and basic strue variety of plants. Observe a materials and chan sorting an

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Animal Parts

Animals' body parts; Animal groups – amphibians, birds, fish, invertebrates, mammals, reptiles; Carroll and Venn diagrams; Pets; Carnivores, herbivores and omnivores; Earthworms;

- Identify, compare, group and sort a variety of common animals, including fish, amphibians, reptiles, birds, invertebrates and mammals, based on observable features.
- Label and describe the basic structures of a variety of common animals, including fish, amphibians, reptiles, birds and mammals.
- Identify, compare, group and sort a variety of common animals, including fish, amphibians, reptiles, birds, invertebrates and mammals, based on observable features.
- With support, gather and record simple data in a range of ways (data tables, diagrams, Venn diagrams).
- Describe how to care for plants and animals, including pets.
- Group and sort a variety of common animals based on the foods they eat.
- Observe objects, materials, living things

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help, what they think they have found out.
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Working scientifically Identifying and classifying, Comparative test, Pattern seeking, Research

ates and invertebrate groups; Microhabitats; Animal Food chains; Human impact on habitats; Animal 5 – amphibians, birds, invertebrates, mammals and hanges in animals; Habitat improvements.

swer scientific questions about the world around them. otice patterns and relationships in their data and explain have done and found out using simple scientific language. he suitability of a range of everyday materials for uses, including wood, metal, plastic, glass, brick, rock, cardboard.

range of local habitats and habitats beyond their locality ainforests, deserts, oceans and mountains) and what all ovide for the things that live there.

ne basic life cycles of some familiar animals (egg, pupa, butterfly; egg, chick, chicken; spawn, tadpole, g).

pical UK seasonal weather patterns.

w animals, including humans, need water, food, air and survive.

t of instructions to perform a range of simple tests, aple predictions for what might happen and suggesting swer their questions.

d name a variety of plants and animals in a range of d microhabitats.

nd construct simple food chains to describe how living end on each other as a source of food.

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