

Carr Hill Community Primary School



Reception

Science Mapping



Whole School Science Curriculum Mapping EYFS - Reception

Term	Topic	ELG The Natural World	Experiences		Vocabulary (exposure)
			Continuous Provision	Adult Initiated/Directed Activities	
Autumn A	All About Me Science Focus Forces Seasonal Change	Explore the natural world around them, making observations and drawing pictures of animals and plants. Know some similarities and differences between the natural world around them and contrasting environments, drawing on their experiences and what has been read in class. Understand some important processes and changes in the natural world around them, including the seasons and changing states of matter.	<ul style="list-style-type: none"> Investigation area - Magnets Water area - general exploration of floating and sinking (corks, rocks, plastic and wooden toys, metal – spoons etc) Ramps and cars – exploring forces/friction - ramps wrapped in different surfaces. Natural materials (e.g. leaves, twigs, conkers, pine cones etc) for observation and investigation using magnifying glasses including in mud kitchen outdoors Non-fiction books linked to seasons. Photographs of seasonal change. Branches with leaves. Non-fiction books – magnets Outdoor – windy day box 	<ul style="list-style-type: none"> Daily weather observation. Observation and discussion of decay of a branch with leaves on. Plant spring bulbs, Discuss Autumn, visit Gibside and collect/discuss/talk about seasonal change. Windy day box – bubbles, streamers, windmill, chiffon scarves, kite etc Discuss, test and observe materials magnets are attracted to. 	Weather, forecast, sunny, cloudy, rainy, cold, hot, windy, snow, icy, autumn, winter, spring, summer, Leaves, pinecones, conkers, trees, branches, twigs, bushes, flowers, evergreen, soil, earth, bulb, water, sun, Ramp, rough, smooth, bumpy, large, small, high, low, fast. Slow, friction, glide, surface, attract Float, sink, heavy, light, plastic, wood, metal, natural, man made
Autumn B	Food, Festivals and Celebrations Science Focus Light Seasonal Change		<ul style="list-style-type: none"> Investigation area - Natural materials (e.g., leaves, twigs, conkers, pine cones etc) for observation and investigation using magnifying glasses. Non-fiction books linked to seasons. Photographs of seasonal change. Investigation area - Torches, dark tent/den, light box, colour paddles, mirrors, kaleidoscopes, everyday object (transparency) Outdoor - Water area - general exploration of floated and sinking (corks, rocks, plastic and wooden toys, metal – spoons etc) Scales Non-fiction books – light Small world – rocket, non-fiction space books, costumes, globe Outdoors- shadow making materials 	<ul style="list-style-type: none"> Daily weather observation. Observe and discuss spring bulbs – growth and change over time. Make and explore shadows – yard (toys and long roll of paper), puppets Investigate changing states through food preparation and cooking- melting chocolate, cooking biscuits, angel delight. Continue to discuss seasonal changes (autumn to winter). Find out about nocturnal animals. 	Weather, forecast, sunny, cloudy, rainy, cold, hot, windy, snow, icy, autumn, winter, spring, summer, Light, dark, shadow, night, day, sun, lighter, darker, see through, not see through, mirror, torch, reflection. Melt, cool, heat, liquid, runny, dissolve, mix, mixture, thick, thin. Space, earth, sun, starts, planets, moon



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Spring A	Once upon a time Science Focus Materials Seasonal Change	<ul style="list-style-type: none"> Explore the natural world around them, making observations and drawing pictures of animals and plants. Know some similarities and differences between the natural world around them and contrasting environments, drawing on their experiences and what has been read in class. Understand some important processes and changes in the natural world around them, including the seasons and changing states of matter. 	<ul style="list-style-type: none"> Sensory tuff spot – gloop, rice, pasta etc Sand area Junk Modelling/Cut and Stick – recycled materials, various materials, papers and textures. Investigation area - natural materials – shells, pebbles, wood, bark, feathers, metal, fabrics etc. Texture blocks. Materials that can be bent, stretched, twisted, springs, elastic bands. Non-fiction books – materials Building houses using different materials – construction, cut and stick Frozen objects Outdoor – sensory tuff spot 	<ul style="list-style-type: none"> Daily weather observation. Discuss the season of winter. Cooking activities linked to the stories such as gingerbread men. Observe and discuss spring bulbs – growth, change over time. Building houses using different materials. Freezing and melting – freeing an object from the ice. 	Weather, forecast, sunny, cloudy, rainy, cold, hot, windy, snow, icy, autumn, winter, spring, summer, rough, smooth, bumpy, soft, shiny, texture, wet, dry, recycle, cut, join, bendy, squishy, hard, strength, strong, stretch, twist	
Spring B	Watch me grow Science Focus Plants, Human body Seasonal change	<ul style="list-style-type: none"> Explore the natural world around them, making observations and drawing pictures of animals and plants. Know some similarities and differences between the natural world around them and contrasting environments, drawing on their experiences and what has been read in class. Understand some important processes and changes in the natural world around them, including the seasons and changing states of matter. 	<ul style="list-style-type: none"> Planting station – soil, gardening tools, seeds, gloves, plant pots etc Investigation area – senses focus Baby photos and family photos in home corner- human lifecycle Heathy snacks – snack area, discuss healthy lifestyles. Non-fiction books – plants, human body, spring. Observational drawings and painting of plants and flowers. Outdoor – planting station, digging patch, greenhouse 	<ul style="list-style-type: none"> Daily weather observation. Discuss the season of spring. Learn about parts of the body. Sequence human and plant lifecycle. Compare baby photographs and photographs now to discuss similarities and differences. Look at animals and their young and discuss similarities and differences. Discuss keeping healthy – teeth brushing, food choices, exercise, screen time etc. Making healthy snacks. Planting vegetables and flowers – greenhouse and gardening time. To learn about parts of a plant through discovery and observation. Explore what living things need to survive. Visitors – nurse, dentist Visit to the farm 	Weather, forecast, sunny, cloudy, rainy, cold, hot, windy, snow, icy, autumn, winter, spring, summer, Plant, seed, stem, leaf, flower, root, soil, earth, grow, water, sunlight, blossom, shoot, dead, alive Sight, touch, hear, smell, taste, arm, leg, body, head, feet, hands, eyes, ears, nose, mouth Healthy, unhealthy, exercise, clean, dirty, teeth Baby, toddler, child, teenager, adult, older person	



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Summer A	Animals Science Focus Animals and habitats Seasonal Change	<ul style="list-style-type: none"> Explore the natural world around them, making observations and drawing pictures of animals and plants. Know some similarities and differences between the natural world around them and contrasting environments, drawing on their experiences and what has been read in class. Understand some important processes and changes in the natural world around them, including the seasons and changing states of matter. 	<ul style="list-style-type: none"> Caterpillar observation station and non-fiction animal lifecycle books, magnifying glasses Investigation area - World map, globe, habitat pictures, atlases, non-fiction habitat and animal books. Small world – animals – farm, safari, polar, bears, minibeasts – discuss similarities and difference between animals and habitats. Animals and their young matching games. Animal puzzles. Outdoor – binoculars, magnifying glasses, bug pots, pooters, nets 	<ul style="list-style-type: none"> Daily weather observation. Discuss the seasons of spring and summer Discuss and observe changes to caterpillars - Lifecycle of the butterfly. Learn and recall facts about animals, asking questions about favourite animals. Sorting and grouping animals. Observing and drawing different animal habitats. Watching videos of animals in different habitats. Look at maps to find out where animals live in the world. Visitor – Animal Antics – minibeast focus Looking after plants – flowers and vegetables 	Weather, forecast, sunny, cloudy, rainy, cold, hot, windy, snow, icy, autumn, winter, spring, summer, Caterpillar, chrysalis, butterfly, egg, observe Bears, lion, tiger, giraffe, elephant, polar bear, penguin, seal, walrus, spider, snail, slug, forest, cave, sea, ocean, ice, rock, garden, log, soil, hibernate, habitat, same, different
Summer B	Seaside Science Focus Floating and sinking Seasonal Change		<ul style="list-style-type: none"> Tuff spot – sea creatures/rockpool – observe and discuss similarities and differences between different animals. Water area – floating and sinking focus sinking (corks, rocks, plastic and wooden toys, metal – spoons etc) Sorting materials – recycling Design, build and test a boat that will float – use junk materials. Water area – sea creatures Outdoor – throwing a range of objects – notice how they move through the air and land. Balls, skittles. Mark making on different surfaces 	<ul style="list-style-type: none"> Daily weather observation. Discuss the season of summer and seasonal change Discuss pollution in the water. Find out about recycling, sort recycling in our junk modelling areas. Investigate floating and sinking. Learn about what lives under the sea Looking after plants – flowers and vegetables 	Weather, forecast, sunny, cloudy, rainy, cold, hot, windy, snow, icy, autumn, winter, spring, summer, Rockpool, sea, ocean, fish, crab, starfish, shark, dolphin, whale, seahorse, same, different float, sink, material, heavy, light, plastic, wood, metal, natural, man-made, recycled, old, new, non-recyclable, pollution, investigate, test, predict, observe