

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
NURSERY	The Colour Monster	Magical Moments	Nursery Rhymes	Out of this World	Amazing Animals	Ready, Steady Grow
Knowledge and Understanding of the World.	Knowing our similarities and differences.		Looking at changes over time.		Growing –looking after plants & animals.	
HOOK	Discussion of what we need to stay healthy and safe, through our daily routines, hand washing and healthy snacks. Weekly P.E lessons - notice changes that happen in the body. Explore the differences between some animals and us. Look at pictures of themselves as babies and talk about how their needs have changed, discussing families. Use of senses; feeling dough or listening to sounds in the environment, such as sirens or farm animals. Dentist visit- we use this to talk about and show interest in different occupations. Autumn walk- collect materials and explore their similarities and differences.		Winter Walk. Observation and manipulation of objects and materials to identify differences and similarities. Play opportunities in our mud kitchen - access to a range of natural and manmade resources Questions about why things happen and how things work. Use Incy Wincy spider to open up conversations about rain and different geographical water features. Play in our construction area: activities such as increasing the incline of a slope to observe how fast a vehicle travels or opening a mechanical toy to see how it works. We talk about different forces. Questioning and observation during continuous provision in areas like the sand or water tray- looking at floating and sinking. Spring walk- looking at the weather and also investigate shadows.		Growing - Living eggs- Watching chicks develop and the life cycle of a chick. Observations of animals and plants, explain why some things occur and talk about changes. Exploring life cycles by observing butterfly houses and watching chicks hatch. A trip to the farm to explore animals at close quarters. Explore creatures, people, plants and objects in their natural environments. We grow plants and vegetables, exploring what they need to grow. Take photos of seeds that they grow and leave them available for the children to order and revisit independently. Look at the life cycle of a plant. Mini-beast hunt. Look for bugs over the course of a week. Look at life cycle of a butterfly and use words to describe the stages e.g. first it was an egg, then it was a caterpillar, now it is a butterfly. Look at the habitat of minibeasts, how they are different for animals and how our behaviour can change the environment. Melting Experiment. Summer walk- looking at the weather and temperature.	

RECEPTION	All about Me	Magical moments	Nursery Rhymes	Out of this World	Amazing Animals	Ready, steady, grow
HOOK	Similarities and differences in relation to family and friends. My body and its body parts. Changes since birth (baby photos). Visit from Ann Jepson- Dental Nurse. Introduction discussion of plants, animals and natural objects. The natural world – explore the world around them. Observe the effects of exercise on their bodies. Learn about healthy diets. Healthy foods – not healthy foods. Talk about some of the things which they have observed in this topic.	Seasons and seasonal change. Describe the world around us. Caring for the environment. Walk to Bruntwood Park – looking at the Season Autumn. The natural world – observation of changes that occur. Explore the natural world around them. Make observations and drawing pictures of plants and animals. Memory boxes- recap on what they have learnt in this topic.	Pushing and pulling forces Talk about why things happen and how they work. Investigate magnets. Exploring technology. Float/sink test. Exploring ways of travel using different parts of the body. Investigate the changes and in the natural world. Winter walk.	Investigate Space- discovering and naming the planets. Look at, learn the names and describe planets. Visit of the Wonder dome- being in Space experience. Children use technology to gain information. Making space rockets and planets. Our planet Earth and the sun. Can we travel into space? Comparison- could we live on the moon? Describe the moon. Look closely at the similarities, differences, patterns and change.	Research Mini beast facts. Mini beast Hunt in the wildlife area and Bruntwood Park. Identifying mini beasts and classifying them in groups. Looking at habitats. Life cycle of a frog. The natural world – careful observation and understanding changes Seaside- habitats Who lives in the Ocean? Hot and cold habitats Spring walk- Bruntwood Park.	The natural world – investigate contrasting environments. Growing Broad beans and learning how to plant a seed. Identifying what a plant needs to grow. Questions and finding answers about the world in which we live. Safety when tackling new challenges and managing risks. Re-cap on the importance of exercise, eating, sleeping, hygiene and good health. Summer sun safety. Summer walk – Bruntwood Park.
Text/Person	Growth, My body, Teeth. Dental nurse.	Bruntwood Park, All the different seasons books.	A range of nursery rhymes	Wonder dome Experience Space books. Scientists- Mae Jemison, Katherine Johnson	Amazing Ants, Minibeast and animal books	Beansprout and other growing books
Vocab	Healthy/ unhealthy foods. Oral hygiene/teeth. Body/body parts. Baby, toddler, child, adult	Seasons, autumn, winter, spring, summer, weather	Push pull, materials, magnet, magnetic Float, sink, waterproof, not waterproof.	Moon, stars, orbit, space, sun, planets, Earth.	Environment, sea, sun, seasons, weather, animals	Grow, stem, leaf, root, soil, sunlight, mini beast, lifecycle, change.

YEAR 1	AUTUMN 1 MY BODY AND ITS SENSES TERRIFIC TREES Seasonal changes: Autumn	AUTUMN 2 MATERIALS Seasonal changes: Winter	SPRING 1 POLAR PLACES Seasonal changes: Winter to Autumn	SPRING 2 ON SAFARI (ANIMALS) Seasonal changes: Spring	SUMMER 1 PLANTS WHERE WE LIVE Seasonal changes: Spring to Winter	SUMMER 2 SEASIDE AND SUMMER Seasonal changes: Summer The four seasons
HOOK	A recap to our body parts Labelling body parts What are the 5 senses? How we use our senses? Senses experiment- fruits Parts of a tree Learning the names of common British trees Knowing what deciduous and evergreen means- sorting Explore world around us- observation and notice changes. Seasons overview lesson, How has the season changed from Summer? Seasons – looking at Autumn Senses walk/Autumn Walk to Bruntwood Park Scientist: Linda Brown Buck	Name a selection of materials Materials and matching them to objects Describe simple physical properties of materials Testing materials- absorbent and not absorbent Material experiment – Prediction. What are the best materials for a dog bed? Classify materials by their properties- grouping and sorting Change of seasons – winter – discuss changes in clothes, daylight, trees and weather. Scientist: Chester Greenwood	Research the Polar region Visit from a polar explorer- expedition talk Snow gloves investigation- Which glove is the warmest and waterproof? Explore mammals- Polar animals Identify & name Polar animals that are carnivore, herbivore & omnivore Categorise animals into groups: carnivore, herbivore and omnivore What is Camouflage? Re-cap on Trees Seasons- Winter Winter walk – Bruntwood Park Observation and compare to Autumn Scientists/ Explorers: Robert Scott/ Roald Amundsen	Identify & name a variety of animals including amphibians, reptiles, mammals, birds and their features Describe & compare the structure of a variety of animals Which Birds live in our local area? Conduct a bird watch How are birds different to us? Compare ourselves to minibeasts who are invertebrates Season- Spring Scientist: David Attenborough	Grow sunflowers from seeds What equipment do we need to grow a seed? Sequence of planting Structure of plants Recap what does a plant need to grow healthy? How to plant a seed Plant hunt – Which plants grow in our local area? Identify and name common garden and wild plants Identify and name leaves on trees Spring walk – Bruntwood Park Observation and compare to Winter Scientist: Waangari Maathai	Children become marine biologists Hands on looking at the structure of fish What would you find in a rockpool? Identify seashore animals Reduce, re-use, recycle- looking after our planet Observation- lifecycle of a butterfly – growing a caterpillar Into a butterfly Science week- scientists: Rachel Carson Perform a skittles colour change investigation to observe over time (end of year experiment) Seasons- Summer Summer walk- Seasons Observation and compare to Spring Scientist: Rachel Carson
Text/ Person/Place	Non-fiction texts- Bodies and senses Seasons books, trees Bruntwood Park Linda Brown Buck	Materials- objects and non-fiction books School grounds Chester Greenwood	Polar explorer visitor Explorers(above) Polar animals and Arctic/Antarctic non-fiction texts	Bird watching School grounds Different categories of animal books David Attenborough	Grow sunflowers from seeds, Plants and flower books, Bruntwood Park Waangari Maathai	Seaside animals and fish Summer non-fiction texts School grounds Rachel Carson

			Bruntwood Park			
Vocab	Body Parts - Head, body, mouth, teeth, leg, neck, shoulder, hand, leg, foot, thumb, knee, toes, elbow. Skeleton, bones, muscle and skin. Senses – touch, see, smell, taste, hear, eyes, sight, nose, ear, tongue, hand, fingers. Trees - Roots, trunk, branches, leaves, bark, deciduous and evergreen. Seasons- Autumn	Object, material, wood, plastic, glass, metal, water, rock, brick, paper, fabric, elastic, foil, card/cardboard, rubber, wool, clay, hard, soft, stretchy, stiff, bendy, floppy, waterproof, absorbent, breaks/tears, rough, smooth, shiny, dull, see-through, not see through, opaque, transparent. Seasons- Winter	Herbivore, omnivore, carnivore, mammal, adventurer, Antarctic, Arctic, clothes, cold, explorer, freeze, frozen, herbivore, ice, icebergs, North Pole, South Pole, penguin, polar bear, whale, arctic fox, sea lion, seal, snow, fur, waterproof, warm, weather. Seasons- Autumn to Winter comparison	Head, body, eyes, ears, mouth, teeth, legs, tail, Names of animals experienced first-hand from visit, vertebrates, invertebrates, Structure of animal body parts, Amphibians, birds, fish, mammals, reptiles, carnivores, herbivore, omnivore, camouflage. Seasons- Spring	Plants, root, seed, bulb, flower, stem, leaves, wild, plants, garden plants, sunflower, grow, sunlight, water, garden and wild. Leaves, trunk, branches, bark, deciduous and evergreen trees. Seasons- Spring to Winter comparison	Seaside animals, fish, fin, scales, gills, rock pool, crab, habitat, limpet, mussel, periwinkle, sea snail, pollution, recycle, rubbish, beach, sand, sea, shell. Summer, sunglasses, cooling, frozen, protect. Seasons- Summer All four seasons comparison
Year 2	AUTUMN 1 YOUNG GARDENERS (PLANTS)	AUTUMN 2 HEALTHY ME	SPRING 1 SURVIVAL ADVENTURE	SPRING 2 USES OF MATERIALS	SUMMER 1 HAPPY HABITATS	SUMMER 2 FOOD CHAINS
HOOK	What is growing in our school grounds- identification and comparing of plants and trees Lifecycle of a dandelion What do seeds need for germination – investigation of what seeds/beans need to grow healthy – changing variables Explanation of the lifecycle of a seed using key vocabulary Weekly measurement of seedlings Observations and evaluations	What do we need to do to stay healthy lesson? Bread hygiene experiment- germs and washing hands Fitness in the playground – Why is exercise good for me? What exercise does to different body parts Eggs in drinks experiment- fair test, predict, results, evaluate Snacking – record data of class favourite snacks.	Children find out about and describe the basic needs of animals, including humans, for survival (water, food and air) Where are basic needs found? Explore and compare the differences between things that are living, dead and things that have never lived. Pupils will notice that animals, including humans, have offspring which grow into adults	Sorting by materials, linked to recycling. Material properties- Vocabulary and property definition. Comparing Suitability- silly uses of materials. Investigate materials by squashing, bending, stretching and twisting. Design a Tent for a shelter that needs to be waterproof and strong.	What is a habitat? Learn about the rainforests Habitats comparisons- Create a habitats information poster Extreme habitats Habitats of the UK- names of local habitats e.g. pond, woodland etc. Exploring micro-habitat e.g. under logs, in bushes etc.	Animal food chains including humans Children will identify different types of animal depending on their diet Sort animals into categories by what they eat Children to explore how animals eat, e.g. beak Learn what a food chain is Children to explain what a food chain is giving examples of producer and consumer

	of growing investigation Germination race- bulbs and seeds Greenhouses/Allotments Bulb planting (In Forest School)	Gathering information and using it to answer questions Children create their own healthy snack bowl using a selection of different fruits and vegetables.	Life cycle of a bird Growth in humans Wildlife survey- collecting and recording data	Make, test and evaluate investigation.	Observe outside for living things- Why do animals live there? Match animals to the correct habitat. Woodlouse live investigation plan and experiment	Create their own food chain paper chains. Label the producers and the consumers. Classification investigation: Whose poo?
Person/ Place	School grounds George Washington Carver	Playground Louis Pasteur	School grounds Charles Darwin	Classroom Charles Macintosh	Bruntwood Park Jane Goodall	Bruntwood Park Scientists related to science week
Vocab	Seed, bulb, grow, flower, plant, fruit, vegetable, germinate, tree, sow, seedling, harvest, healthy, conditions, observe, describe, identify, investigate, life cycle.	Health, healthy diet, habits, basic needs, hygiene, germs, grow, growth, exercise, muscle, nutrition, survive, heart, fitness, measure, question, observe, predict, fair test, evaluate.	Alive, living, not alive, dead, never lived, offspring, life cycle, young, child, baby, adult, basic needs, survive, survival, reproduce, healthy, breathe, human, animal, Compare, explain, observe and classify, explore, identify, describe, similarities, differences.	Names of materials – wood, metal, plastic, glass, brick, rock, paper, cardboard. Properties of materials – as for Year 1 plus opaque, transparent, translucent, reflective, non-reflective, flexible, rigid, waterproof, not waterproof. Shape, push/pushing, pull/push, twist/twisting, squash/squashing, bend/bending, stretch/stretching.	Habitat, micro habitat ocean, forest, desert Rainforest, woodland. sun, grass, leaf, litter, stony path, under bushes, shelter, sea shore, basic needs, breathe, rainforest, conditions, Hot/warm/cold Dry/damp/wet Bright/shade/dark, local environment, aim, plan, method, results.	Food, food chain, plant, animal, prey, predator, carnivore, herbivore, omnivore, diets, producer, consumer, habitat, basic needs, living things, local environment, classify.