Blue – Practical scientific methods, processes and transferable scientific skills

Red – key vocabulary

Differentiation by input see the weekly planning and activities - ensure SEND pupils' targets are being used to support pupils in every lesson -Key vocab for each learning objective is in red font -Resources -see the weekly planning Ensure the resources extend the context they are learning through and supports their enjoyment of science. -Minimum Assessment for Learning strategies for all topics = Peer Talk; targeted questioning, attainment of transferable skills - Long term memory development strategies= Recapping pervious learning at the start of each new topic / Long term memory strategy linked to the objectives on this sheet for each week - Scientific Cultural Capital = Understanding of order in teaching/learning of science in order to build on skills and knowledge							
Sapphire Class - Year 1&2	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7
Year A							
Ruby Class EYFS	I	I		l	I		
 Communication and Lang Personal, Social and Emo Understanding the World 		Listening, Attention and Understanding Managing Self The Natural World	Manage their own bas Explore the natural wo Know some similaritie	orld around them, making observations s and differences between the natural v	ns to clarify their understanding ng dressing, going to the toilet and unders and drawing pictures of animals and plar world around them and contrasting enviro atural world around them, including the se	nts. Inments, drawing on their experiences ar	
			Observe changes across the four seas	ons (Completed throughout the year)			
Autumn 1 Animals including humans	N.C. Links: Identify, name, draw and label basic parts of the human body and say which part of the body is associated with each sense	N.C. Links: Identify, name, draw and label basic parts of the human body and say which part of the body is associated with each sense	N.C. Links: Identify, name, draw and label basic parts of the human body and say which part of the body is associated with each sense.	N.C. Links: Identify, name, draw and label basic parts of the human body and say which part of the body is associated with each sense	N.C. Links: Identify, name, draw and label basic parts of the human body and say which part of the body is associated with each sense.	N.C. Links; Identify, name, draw and label basic parts of the human body and say which part of the body is associated with each sense	Assessment and review
N.C. Identify, name, draw and label the basic parts of the human body and say which part of the	Asking simple questions and recognising that they can be answered in different ways.	Identifying and classifying. USING OUR SENSES (Collins)	Identifying and classifying USING OUR SENSES (Collins)	Using observations and ideas to suggest answers to questions.	Gathering and recording data to help in answering questions. USING OUR SENSES (Collins)	Using observations and ideas to suggest answers to questions.	
body is associated with each sense	USING OUR SENSES (Collins) Is everyone's body the same? L.O. To identify, name and compare parts of our bodies Key vocabulary: parts of the body (for example, head, neck, arms, elbows, hands, legs, knees, foot/feet, face, ears, eyes, nose, hair, mouth, teeth), comparative language (for example, tall, taller, short, shorter, big, bigger, small, smaller)	What differences can our tongues taste? L.O. To describe, compare and group different edible materials by using the sense of taste Key vocabulary: taste, tongue, flavour, sweet, salty, sour, bitter, sharp, tingly, fizzy, milky	What can we hear using our sense of hearing? L.O. To identify, compare and group the sounds collected during a sound walk Key vocabulary: names of sound sources (for example, buzzer, doorbell, radio, cocker timer, bird song, wind blowing, car horn, traffic noise), comparative language (for example, louder/ softer, loud, quiet, high, low), ear, hear, noisy, bang, crash, whistle, buzz, ring	USING OUR SENSES (Collins) How can we explore the world using our sense of touch? L.O. To describe how our sense of touch helps us to learn about the world around us. Key vocabulary: touch, feel, rub, pinch, prod, sensitive, sense, parts of the body that might be used to touch (for example, hands, fingers, feet, skin), words to describe textures (for example, rough, smooth, bumpy, wrinkled, grooved, shiny, smooth, soft, hard, crunchy, slippery, slimy)	Which smells do we love and hate? L.O. To describe and compare a variety of different smells, identifying which are the most and least liked by the class Key vocabulary: smell, fragrance, scent, nose, nostrils, names of 'smell makers', adjectives to describe smells (for example, flowery, fruity, sour, bitter, sharp, strong, gentle, smelly, pong)	USING OUR SENSES (Collins) How do we use our senses to find out about the world around us? L.O. To describe how our senses help us to find out about the world Key vocabulary: senses, taste, hear, hearing, smell, touch, touching, see, seeing, sight, tongue, mouth, ears, nose, body, hand, fingers, skin, eyes	
Autumn 2 Animals, including humans	N.C. Links: Identify and name a variety of common animals including fish, amphibians, reptiles, birds and mammals.	N.C. Links: Describe and compare the structure of a variety of common animals (fish, amphibians, reptiles, birds and mammals, including pets).	N.C. Links: Describe and compare the structure of a variety of common animals (fish, amphibians, reptiles, birds and mammals, including pets)	N.C. Links: Describe and compare the structure of a variety of common animals (fish, amphibians, reptiles, birds and mammals, including path)	N.C. Links: Describe and compare the structure of a variety of common animals (fish, amphibians, reptiles, birds and mammals, including pets).	N.C. Links: Identify and name a variety of common animals that are carnivores, herbivores and omnivores.	Assessment and Review
N.C. Identify and name a variety of common animals including fish, amphibians, reptiles, birds and mammals	Identifying and classifying	Observing closely, using simple equipment. LOOKING AT ANIMALS (Collins).	Observing closely, using simple equipment. LOOKING AT ANIMALS (Collins).	Observing closely, performing simple tests and using observations to suggest answers to	Identifying and classifying.	Identifying and classifying.	
Identify and name a variety of common animals that are carnivores, herbivores and omnivores	Who's who in the animal world? L.O. To identify and name a variety of common animals Key vocabulary: names of animals,	How are animals' bodies different? L.O. To describe and compare the body structures of different kinds of animals	How do animals move? L.O. To describe and compare how different kinds of animals move Key vocabulary: jump, hop, leap, climb,	duestions, gathering and recording data to help in answering questions. LOOKING AT ANIMALS (Collins).	What animals are busy at night? L.O. To describe how the lives of nocturnal animals differ from those of animals seen during the daytime	Whose food is this? L.O. To recognise that some animals mainly eat meat (carnivores), some only eat plant materials (herbivores) and some eat both (omnivores)	
	common body parts and animal groups, including zebra, lion, lizard, snake, giraffe, elephant, deer, warthog, camel, brown bear, gorilla, goat, leopard, racoon, wildebeest, ostrich, chicken, salmon, toad, horse, tiger, parrot, angel fish, frog, rabbit, cow, crocodile, owl, clown fish, newt, fox, legs, wings, eyes, skin, fins, tail, fish, amphibians, reptiles, birds, mammals	Key vocabulary: names and descriptions of amphibian and reptilian body parts, including webbed feet, legs, smooth skin, big eyes and mouth, nose, tail, scaly skin, legs, claws on feet, tail, long tongue, big eyes and mouth, big teeth	clamber, swing, pad, pace, prowl, slither, canter, pounce, spring, flap, fly, flutter, flop, splash, splosh, dive, swim, slither, slide	What's so special about birds? L.O. To observe the main features of birds, including feathers, and to compare these in different kinds of birds Key vocabulary: bird body parts, names of birds and descriptive vocabulary, including bill, beak, head eye, legs, claws, wings, tail, feather, down, quill, robin, blackbird, blue tit, hawk, peacock,	Key vocabulary: night, nocturnal, senses, sight, smell, sonar, food, feeding, roost, sett, burrow, tunnel, nest, names of nocturnal animals, for example, hedgehog, fox, bat, badger	Key vocabulary: food, eat, healthy, meat, insects, fish, vegetables, plants, trees, grass, seeds, nuts, carnivore, herbivore, omnivore, cow, horse, rabbit, mouse, squirrel, elephant, caterpillar, goat, sheep, fox, dragonfly, barn owl, otter, wolf, lion, tiger, bear, frog, chicken, badger, hedgehog, blackbird	

Science Medium Term Plan Year A & B Blue – Practical scientific methods, processes and transferable scientific skills Red – key vocabulary

Spring 1 Model							
Everypay materials N.C. Dangyab hereora a watery of corsysty minimizes, mining corport, mining corport, min					round, fat, big, small, bendy, soft,		
Plants access the four seasons. the four seasons. the four seasons. the four seasons. Userving closely, using simple equipment. the four seasons. Userving closely, using simple equipment. <	Everyday materials N.C. Distinguish between an object and the material from which it is made Identify and name a variety of everyday materials including wood, plastic, glass, metal, water and rock. Describe the physical properties of a variety of everyday materials. Compare and group together a variety of everyday materials on the basis of their simple physical	variety of everyday materials, including wood, plastic, glass, metal, water and rock. To identify and name a variety of everyday materials, including wood, plastic, glass, metal, water and rock Identifying and classifying. Observing closely, using simple equipment. EVERYDAY MATERIALS (Collins) What material is this? Part 1&2 L.O. To identify and name three /four everyday materials Key vocabulary: materials, wood, plastic, metal Key vocabulary:	variety of everyday materials, including wood, plastic, glass, metal, water and rock Performing simple tests. EVERYDAY MATERIALS (Collins) Is all paper the same? L.O. To identify and name paper in a variety of forms Key vocabulary: materials, writing, wrapping, drawing, display, greaseproof, kitchen towel, handkerchief, wallpaper, sand paper,	 variety of everyday materials, including wood, plastic, glass, metal, water and rock Using observations and ideas to suggest answers to questions. EVERYDAY MATERIALS (Collins) Is all fabric the same? L.O. To identify and name a variety of fabrics Key vocabulary: materials fabrics, 	an object and the material from which it is made Identifying and classifying. Gathering and recording data to help in answering questions. EVERYDAY MATERIALS (Collins) What's it made of? Can the same object be made from different materials? L.O. To recognise that most objects are made from more than one material L.O. To describe how the same type of object can be made using different materials Key vocabulary: wood, wooden, metal, plastic, rock, brick, glass,	together a variety of everyday materials on the basis of their simple physical properties. To describe the simple physical properties of a variety of everyday materials Observing closely, using simple equipment. Gathering and recording data to help in answering questions. EVERYDAY MATERIALS (Collins) What's it like? Does it bend or stretch? L.O. To identify and describe the physical properties of a selection of materials L.O. To investigate the stretchiness and flexibility of selected materials Key vocabulary: hard, soft, rough, smooth, shiny, dull, light, heavy, transparent, opaque, properties, harder, lighter, rougher Key vocabulary: stretch, stretchy, stiff, bend, bendy, not bendy, press, squash, twist, shape, hard, soft,	
Summer 1 Seasonal changesN.C. Links: Observe changes across the four seasonsN.C. Links: Observe changes across the four seasons, and observe and describe weather associated with the seasons and how day length variesN.C. Links: Observe and describe weather associated with the seasons and how day length variesN.C. Links: Observe and describe weather associated with the seasons and how day length variesN.C. Links: Observe and describe weather associated with the seasons and how day length variesN.C. Links: Observe and describe weather associated with the seasons and how day length variesN.C. Links: Observe and describe weather associated with the seasons and how day length variesOUR CHANGING WORLD: associated with the seasons and how day length variesOUR CHANGING WORLD: SENSING SEASONS (Collins)OUR CHANGING WORLD: SENSING SEASONS (Collins)	Plants N.C. Identify and name a variety of common wild and garden plants, including deciduous and	across the four seasons. Observing closely, using simple equipment. OUR CHANGING WORLD: PLANTS (Collins) How do leaves change across the year? L.O. To observe, compare and contrast leaves across Key vocabulary: leaf, leaves, bud, twig, branch, tree, plant, rough, smooth, shiny, glossy, wrinkled, crinkled, crunchy, crisp, soft, green, olive, brown, orange, red, yellow, rust, and other descriptive phrases and colour names the seasons, noticing any changes that may	the four seasons. Observing closely, using simple equipment. OUR CHANGING WORLD: PLANTS (Collins) Do all trees lose their leaves in winter and grow new ones in the Spring? L.O. To observe, compare and contrast trees across the seasons, in particular what happens to the leaves and the changes in the twigs Key vocabulary: leaf, leaves, bud, twig, branch, tree, plant, deciduous, evergreen, colours of leaves, textures of leaves	the four seasons. Observing closely, using simple equipment. OUR CHANGING WORLD: PLANTS (Collins) What flowers can we find in different seasons? L.O. To make observations of flowers, noticing the range of colours that exist. L.O. To identify and name some flowering plants and recognise that they produce flowers at different times of the year. Key vocabulary: flower, blossom, petals, stem, stalk, comparative language – small, little, big, large, single, lots, names of a variety of garden and wild plants found around school	 the basic structure of a variety of common flowering plants, including trees. Observing closely, using simple equipment. OUR CHANGING WORLD: PLANTS (Collins) How do plants grow and change over time? L.O. To observe and describe changes to plants that take place over time Key vocabulary: plug plant, roots, stem, shoot/s, bud, flower, leaf, soil, compost, manure, dig, prepare, water, watering 	variety of common wild and garden plants, including deciduous and evergreen trees. Identifying and classifying. OUR CHANGING WORLD: PLANTS (Collins) What can we make with the food we have grown? L.O. To identify a variety of vegetable and fruit crops, and use them creatively to make salads Key vocabulary: vegetable, fruit, names of vegetables and fruits, salad, wash, clean, peel, cut, chop, grate, mix, sprinkle, combine	
Seasonal changes N.C. Observe changes across the four seasonsacross the four seasonsthe four seasons, and observe and describe weather associated with the seasons and how day length variesweather associated with the seasons and how day length variesweather associated with the seasons and how day length variesN.C. Observe changes across the four seasonsUsing observations and ideas to suggest answers to questions.the four seasons, and observe and describe weather associated with the seasons and how day length variesweather associated with the seasons and how day length variesweather associated with the seasons and how day length variesObserve and describe weather associated with the seasons and how day length variesOUR CHANGING WORLD: sensing SEASONS (Collins)Cathering and recording data to help in answering questions.Using observations and ideas to suggest answers to questions.Using observations and ideas to suggest answers to questions.OUR CHANGING WORLD: SENSING SEASONS (Collins)OUR CHANGING SEASONS (Collins)	Summer 4						
how day length varies SENSING SEASONS (Collins) OUR CHANGING WORLD: OUR CHANGING WORLD: OUR CHANGING WORLD: SENSING SEASONS (Collins) How do the changing seasons SENSING SEASONS (Collins) SEASONS (Collins)	Seasonal changes N.C. Observe changes across the four seasons Observe and describe weather	across the four seasons Using observations and ideas to suggest answers to questions.	the four seasons, and observe and describe weather associated with the seasons and how day length varies Gathering and recording data to help	the four seasons, and observe and describe weather associated with the seasons and how day length varies Using observations and ideas to	weather associated with the seasons and how day length varies Gathering and recording data to	weather associated with the seasons and how day length varies Using observations and ideas to	t c a
		SENSING SEASONS (Collins) How do the changing seasons	OUR CHANGING WORLD:	OUR CHANGING WORLD: SENSING			

N.C. Links: To describe the simple physical properties of a variety of everyday materials	Assessment and Review
Performing simple tests.	
EVERYDAY MATERIALS (Collins)	
What properties do ice and water have? L.O. To describe the properties of ice	
Key vocabulary: hard, smooth, cold, wet, dull, shiny, frozen, freeze, melt, water, ice, salt	
N.C. Links: Identify and name a variety of common wild and garden plants, including deciduous and evergreen trees	
Using observations and ideas to suggest answers to questions.	
OUR CHANGING WORLD: PLANTS (Collins)	
Independent research	
L.O. To use independent research to extend own knowledge	
Previous key vocabulary	
N.C. Links: Observe changes across the four seasons Observe and describe weather associated with the seasons and how day length varies	Assessment and Review
Using observations and ideas to suggest answers to questions.	
Independent research	

Blue – Practical scientific methods, processes and transferable scientific skills Red – key vocabulary

	L.O. To identify how the seasons determine how 'our changing world' varies, and to describe the impact that seasonal change has on our lives Key vocabulary: season, autumn, winter, spring, summer, names of the months of the year, temperature, hot, warm, cold, cool, freezing, frosty, wet, dry, sunny, cloudy, showery, stormy, windy, breeze, gale, hat, gloves, mittens, scarf, muffler, ear muffs, boots, coat (and other items of clothing and names of fabrics that suit specific weather conditions), thick, thin, woolly, furry, warm, waterproof	What can we see and hear that shows us that the seasons are changing? Part 1 L.O. To observe, describe and compare the changing seasons of the year Key vocabulary: season and month names, season, change, names of plants, trees and animals that they have encountered during previous lessons.	What can we see and hear that shows us that the seasons are changing? Part 2 L.O. To identify how 'our changing world' varies depending on the season by examining the evidence collected, and to describe the impact that seasonal change has on animals Key vocabulary: season and month names, season, changes, evidence, similar, different, group, compare, names of plants, trees and animals that children have encountered in previous lessons; rain/ rainy, sun/sunny, wind/ windy, snow/snowy, shower, drizzle, puddle, breeze, gale, storm, thunder, lightning, sleet, frost, fog, mist, weather forecast	How does the weather change across the seasons? L.O. To describe the weather and how it varies at different seasons of the year Key vocabulary: rain/rainy, sun/sunny, wind/windy, snow/ snowy, shower, drizzle, puddle, breeze, gale, storm, thunder, lightning, sleet, frost, fog, mist, weather forecast	What do different kinds of weather look and feel like? L.O. To describe and compare weather associated with the seasons Key vocabulary: rain/rainy, sun/sunny, wind/windy, snow/ snowy, shower, drizzle, puddle, breeze, gale, storm, thunder, lightning, sleet, frost, fog, mist, umbrella, wellies, kite, windmill, sunglasses, mittens and ear muffs (and other weather-related vocabulary)
Summer 2 Everyday materials	N.C. Links: Identify and name a variety of common wild and garden plants, including deciduous and evergreen trees. Observing closely, using simple equipment.	N.C. Links: Identify and name a variety of common wild and garden plants, including deciduous and evergreen trees. Observing closely, using simple equipment.	 N.C. Links: Identify and describe the basic structure of a variety of common flowering plants, including trees. Identifying and classifying. PLANT DETECTIVES (Collins) 	 N.C. Links: Identify and describe the basic structure of a variety of common flowering plants, including trees. Using observations and ideas to suggest answers to guestions. 	N.C. Links: Identify and describe the basic structure of a variety of common flowering plants, including trees. Gathering and recording data to help in answering questions.
Plants N.C. Identify and describe the basic structure of a variety of common flowing plants including trees	PLANT DETECTIVES (Collins) What garden plants can we find around our school? L.O. To identify, name, describe and compare some familiar garden plants in the local environment Key vocabulary: garden plant, names of garden plants, such as pansy, geranium, busy Lizzie, petunia, begonia, daisy, snapdragon, fuchsia, lily, daffodil, buddleia, lavender, cosmos; plant parts, such as leaf, stem, branch, flower, bud; similar, different, compare, group, identify	PLANT DETECTIVES (Collins) What wild plants can we find around our school? L.O. To identify, name, describe and compare a variety of familiar wild plants in the local environment Key vocabulary: wild plant, weed, names of common wild plants such as buttercup, thistle, nettle, foxglove, poppy, dandelion, daisy, cornflower, periwinkle, bluebell; leaf, stem, bud, similar, different, compare, group	What is the same and different about the flowers around us? L.O. To compare a variety of familiar flowering plants and group them according to the similarities in their flowers Key vocabulary: flower, blossom, petals, stem, stalk, comparative language, such as small, little, big, large, single, lots: names of a variety of garden and wild plants found around school	PLANT DETECTIVES (Collins) What is happening underground beneath our plants? L.O. To describe and compare the root systems of a variety of familiar plants Key vocabulary: plant, root, root system, tap root, fibrous roots	 PLANT DETECTIVES (Collins) What makes a tree a tree? L.O. To identify and name, describe and compare a variety of trees in the local environment Key vocabulary: plant, tree, trunk, branch, twig, bud, leaf, leaves, bark, wood; comparative language – tall, short, taller, shorter, tallest, shortest, compare, measure; descriptive language – surface, texture, rough, smooth, bumpy, cracks, flakes, wrinkled

- Asking simple questions and recognising they can be answered in different ways
- Observing closely, using simple equipment Performing simple tests •
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- Identifying and classifying Using their observations and ideas to suggest answers to questions

Collins is the scheme of work followed but other resources can be used to supplement and complement the planning process and learning objectives

• Science Enrichment Activities - Science Club (Year 2), Science Week, Outdoor Learning

L.O. To use independent research to extend our knowledge	
Previous key vocabulary	
N.C. Links: Identify and name a variety of common wild and garden plants, including deciduous and evergreen trees	Assessment and Review
Using observations and ideas to suggest answers to questions.	
OUR CHANGING WORLD: PLANTS (Collins)	
Independent research	
L.O. To use independent research to extend own knowledge	
Previous key vocabulary	
	L

Blue – Practical scientific methods, processes and transferable scientific skills

Red – key vocabulary

-Minimum Assessment for L	earning strategies for all topics – Peer T	alk; targeted questioning, attainment of tr	d supports their enjoyment of science.			
 Long term memory develop 	ment strategies= Recapping pervious lo	earning at the start of each new topic / Lo	ng term memory strategy linked to the ob	ectives on this sheet for each week		
		ning of science in order to build on skills Week 2		Week 4	Week 5	V
Sapphire Year 1 & 2 Year B	Week I	Week 2	Week 3	Week 4	Week 5	v
Ruby Class EYFS						
 Communication an Personal, Social and Understanding the 	nd Emotional Development	Listening, Attention and Unders Managing Self The Natural World	Manage their Explore the na Know some si	ts about what they have heard and ask question own basic hygiene and personal needs, includi itural world around them, making observations milarities and differences between the natural w me important processes and changes in the natural w	ng dressing, going to the toilet and unde and drawing pictures of animals and pl vorld around them and contrasting envi	ants. ronm
Autumn 1 Animals, including humans	N.C. Links: Find out about and describe the basic needs of animals, including humans, for	N.C. Links: Notice that animals, including humans, have offspring that grow into adults	N.C. Links: Notice that animals, including humans, have offspring that grow into adults Observing changes	N.C. Links: Notice that animals, including humans, have offspring that grow into adults	N.C. Links: To notice that animals, including humans, have offspring which grow into adults	N in w
N.C. Notice that animals, including humans have offspring which grow into	survival (water, food and air) Identifying and classifying.	Gathering and recording data to help in answering questions.	over time GROWING UP (Collins)	Observing changes over time Noticing patterns	Using observations and ideas to suggest answers to questions	O ot
adults Find out about and	GROWING UP (Collins)	GROWING UP (Collins)	How do we change throughout our lives?	GROWING UP (Collins)	OUR CHANGING WORLD (Collins)	ar O
describe the basic needs of animals, including humans for survival (water, food and air)	What do babies need? L.O. To recognise the needs of an animal for survival Key vocabulary: baby, doll, need, want, living, alive, essential, food, milk, water, drink, eat, air, breathe,	How have we changed? L.O. To compare features of a baby and a child Key vocabulary: baby, child, toddler, compare, change, differences, dependent, independent, move, feed,	L.O. To classify and describe changes that happen as people grow older Key vocabulary: life cycle, life story, stages, order, compare, differences, changes, pregnancy, birth, baby, toddler, child, teenager, adult, parent,	Do all our body parts grow as we get older? L.O. To find evidence about how we grow as we get older Key vocabulary: grow, measure, compare, table, scatter graph, plot, pattern, evidence	How do animals change? L.O. To observe how animals change over time Key vocabulary: egg, offspring, baby, adult, grow, change	Ar pa L. dif
	shelter, warmth, survival, depend	eat, care, learn, appearance, annotate	elderly person, independent, grow			K a ki
Autumn 2 Animals, including humans N.C. Describe the	N.C. Links: Describe the importance for humans of exercise, eating the right amounts of different types of food, and hygiene	N.C. Links: Describe the importance for humans of exercise, eating the right amounts of different types of food, and hygiene	N.C. Links: Describe the importance for humans of exercise, eating the right amounts of different types of food, and hygiene	N.C. Links: Describe the importance for humans of exercise, eating the right amounts of different types of food, and hygiene	N.C. Links: Describe the importance for humans of exercise, eating the right amounts of different types of food, and hygiene	F
importance for humans of exercise, eating the right amounts of different types of food and hygiene	Using observations and ideas to suggest answers to questions	Finding things out using secondary sources of information Using observations and ideas to suggest answers to guestions	Using observations and ideas to suggest answers to questions.	Identifying and classifying. TAKE CARE (Collins)	Grouping and classifying. Using observations and ideas to suggest answers to questions	
	TAKE CARE (Collins) How can we stay fit?	TAKE CARE (Collins)	TAKE CARE (Collins)	How can we sort this food? L.O. To understand how animals depend	TAKE CARE (Collins)	
	L.O. To observe the effects of exercise and plan for regular exercise	How can we stay clean? L.O. To describe different ways to stay hygienic	How can we stay healthy? L.O. To present information about staying healthy in a book for younger children	on each other for food Key vocabulary: food, sort, classify, Venn diagram, Carroll diagram	What food should we eat? L.O. To sort foods according to their food types	
	Key vocabulary: exercise, physical activity, hot, sweaty, heart beating, tired, aching, muscles	Key vocabulary: clean, hygiene, hygienic, wash, bath, shower, brush, comb, toothbrush, toothpaste, soap, water, shampoo	Key vocabulary: food, healthy diet, dairy, fruits, vegetables, meat, fish, beans, fat, sugar, bread, potatoes, cereals, exercise, physical activity, hot, sweaty, heart beating, pulse, tired, aching, muscles, clean, hygiene, hygienic, wash, bath, shower, brush, comb, toothbrush, toothpaste, soap, water, shampoo		Key vocabulary: food, healthy diet, dairy, fruits, vegetables, meat, fi sh, beans, fat, sugar, bread, potatoes, cereals	
Spring 1 Plants N.C. Observe and describe how seeds and bulbs grow into mature plants Find out and describe how plants need water, light	N.C. Links: Observe and describe how seeds and bulbs grow into mature plants Observing closely, using simple equipment. Grouping and classifying	N.C. Links: Observe and describe how seeds and bulbs grow into mature plants, and fi nd out and describe how plants need water, light and a suitable temperature to grow and to stay healthy Observing changes over time Asking simple questions and recognising that	N.C. Links: Observe and describe how seeds and bulbs grow into mature plants Performing simple tests and recording data. Carrying out simple comparative and fair tests	N.C. Links: Observe and describe how seeds and bulbs grow into mature plants, and find out and describe how plants need water, light and a suitable temperature to grow and to stay healthy Gathering and recording data to help in answering questions	N.C. Links: To observe and describe how seeds and bulbs grow into mature plants Observing closely, using simple equipment. OUR CHANGING WORLD (Collins)	ho su st A

Week 6	Week 7
anding the importance of healthy food cl s. ments, drawing on their experiences ar	
asons and changing states of matter.	
N.C. Links: To notice that animals, including humans, have offspring which grow into adults	Review and Assessment
Observing changes over time. Using observations and ideas to suggest answers to questions	
OUR CHANGING WORLD (Collins)	
Are all offspring the same as their parents?	
L.O. To observe similarities and differences between babies and their parent's	
Key vocabulary: offspring, baby, adult, grow, change, chick, calf, cub, kid and other baby animal terms	
Review and Assessment	Review and Assessment
N.C. Links: To find out and describe how plants need water, light and a suitable temperature to grow and stay healthy	Review and Assessment
Asking simple questions and recognising that they can be answered in different ways.	

Science Medium Term Plan Year A & B

Sapphire Class

Blue – Practical scientific methods, processes and transferable scientific skills Red – key vocabulary

and a suitable temperature to grow and stay healthy	THE APPRENTICE GARDENER (Collins) What will the seeds grow into? L.O. To identify which seeds will grow into which types of plants Key vocabulary: seeds, plants, apprentice, gardener, grow, observations, describe, identify, expert	 they can be answered in different ways. THE APPRENTICE GARDENER (Collins) What do gardeners need to know? L.O. To ask questions that will help us to find out about growing plants from seeds Key vocabulary: seed, plant (verb and noun), bulb, grow, question, observe, predict, water, compare, answer, investigate 	THE APPRENTICE GARDENER (Collins) How should we plant the seeds? L.O. To plan and set up an investigation into how seeds should be planted Key vocabulary: seed, bean, soil, surface, plant, compare, test, bury, light, dark, water, prediction	Observing changes over time; carrying out simple comparative and fair tests THE APPRENTICE GARDENER (Collins) What is happening to our seeds? L.O. To make an accurate record of the changes that happen to our seeds Key vocabulary: seed, plant, germinate, grow, radicle, root, shoot, leaves, change	How do plants grow and change over time? L.O. To observe, describe and measure changes in plants which take place over time Key vocabulary: seed, bulb, plant, stem, shoot(s), bud, fl ower, leaf, soil, compost, manure, dig, prepare, water, watering This lesson to be repeated throughout the year to check on the growing process of these vegetables	OUR CHANGING WORLD (Collins) What shall we plant for our soup? L.O. To find out when and how to plant bulbs and seeds to grow ingredients for soup Key vocabulary: seeds, bulbs, plant, root, stem, leaf, fruit Linked to lesson Summer 1 lesson 7	
Spring 2 Plants N. C. Observe and describe how seeds and bulbs grow into mature plants Find out and describe how plants need water, light and a suitable temperature to grow and stay healthy	N. C. Links: Observe and describe how seeds and bulbs grow into mature plants Gathering and recording data to help in answering questions. Noticing patterns THE APPRENTICE GARDNER (Collins) How tall will they grow? L.O. To present data on a bar chart and use it to answer a question Key vocabulary: evidence, height, tallest, shortest, seed, plant, grow, bar chart, scale, pattern, question, connection, measure, compare	 N. C. Links: Find out and describe how plants need water, light and a suitable temperature to grow and stay healthy Using observations and ideas to suggest answers to questions. THE APPRENTICE GARDNER (Collins) How can we care for our plants? L.O. To decide how to improve the condition of an unhealthy plant Key vocabulary: seedling, mature plant, wilting, healthy, unhealthy, water, light, warmth, plan, change, care, predict 	N. C. Links: Observe and describe how seeds and bulbs grow into mature plants Observing closely changes over time, using simple equipment THE APPRENTICE GARDNER (Collins) What happens when a seed germinates? L.O. To describe the different stages of germination Key vocabulary: germination, grow, seed, seedling, mature plant, food store, radicle, root, shoot, leaves, first, next, later, observation, order	 N. C. Links: Find out and describe how plants need water, light and a suitable temperature to grow and stay healthy Gathering and recording data to help in answering questions. THE APPRENTICE GARDNER (Collins) What do plants need to grow and be healthy? L.O. To identify what plants need for healthy growth Key vocabulary: plant, wilting, healthy, unhealthy, water, light, warmth, plan, change, care, predict, observations, because 	 N. C. Links: Observe and describe how seeds and bulbs grow into mature plants Carrying out simple comparative and fair tests THE APPRENTICE GARDNER (Collins) What can we plant our seeds in? L.O. To plan a test to compare how seeds germinate and grow on different materials. Key vocabulary: seed, grow, germinate, fair, compare, same, plan, suitable, soil (and names of other materials used), water 	N. C. Links: Find out and describe how plants need water, light and a suitable temperature to grow and stay healthy Performing simple tests and recording data. THE APPRENTICE GARDNER (Collins) Do plants need light, water, soil? L.O. To describe how to investigate whether plants need light, liquid, soil plants Key vocabulary: grow, die, healthy, test, light, block, investigate, compare, same, plan, agree, disagree, water, wilt, die, alive, healthy, observation,	Review and Assessment
Summer 1 Living things and their habitats Explore and compare the differences between things that are living, dead, and things that have never been alive identify that most living things live in habitats to which they are suited and describe how different habitats provide for the basic needs of different kinds of animals and plants, and how they depend on each other Identify and name a variety of plants and animals in their habitats Describe how animals obtain their food from plants and other animals, using the idea of a simple food chain, and identify and name different sources of food	 N.C. Links: To identify and name a variety of plants and animals in their habitats, including microhabitats Observing closely, performing simple tests and using observations to suggest answers to questions, gathering and recording data to help in answering questions. OUR CHANGING WORLD (Collins) What lives in a habitat? L.O. To observe and identify what plants and animals live in different habitats Key vocabulary: habitat 	 N.C. Links: To identify that most living things live in habitats to which they are suited and describe how different habitats provide for the basic needs of different kinds of animals and plants, and how they depend on each other Gathering and recording data to help in answering questions. OUR CHANGING WORLD (Collins) How does a habitat change through the year? (Outdoor learning) Repeat this lesson 3 times throughout the year L.O. To record changes in the number and types of animals found in a habitat during the year Key vocabulary: habitat, tally chart, pattern 	N.C. Links: To describe how animals obtain their food from plants and other animals, using the idea of a simple food chain, and identify and name different sources of food Using observations and ideas to suggest answers to questions. OUR CHANGING WORLD (Collins) How do the animals in a habitat depend on each other? L.O. To understand how animals depend on each other for food Key vocabulary: food chain	 N.C. Links: To identify that most living things live in habitats to which they are suited and describe how different habitats provide for the basic needs of different kinds of animals and plants, and how they depend on each other; to explore and compare the differences between things that are living, things that are dead and things that have never been alive Using observations and ideas to suggest answers to questions. WHAT IS IN YOUR HABITAT? (Collins) What is in your habitat? L.O. To recognise and compare the main components of some different habitats Key vocabulary: habitat, alive, living, oncelived, dead, never lived, plants, animals, decay, rocks, soil, air, water 	N.C. Links: To describe how animals obtain their food from plants and other animals, using the idea of a simple food chain, and identify and name different sources of food Gathering and recording data to help in answering questions. Using secondary sources of information WHAT IS IN YOUR HABITAT? (Collins) What do different animals eat in their habitats? L.O. To construct examples of food chains for a selection of habitats Key vocabulary: food chain, plants, animals, herbivores (eat plants and parts of plants), carnivores (eat other animals), omnivores (eat plants/ parts of plants and other animals), direction, source of food	 N.C. Links: To identify that most living things live in habitats to which they are suited and describe how different habitats provide for the basic needs of different kinds of animals and plants, and how they depend on each other Using observations and ideas to suggest answers to questions. Grouping and classifying WHAT IS IN YOUR HABITAT? (Collins) Where can I live? L.O. To identify ways in which living things are suited to their habitat Key vocabulary: suited, habitat, features, names of habitats, living things, animal body parts 	 N.C. Links: To observe and describe how seeds and bulbs grow into mature plants Observing changes over time. Observing closely, using simple equipment How will we make our soup? (Collins) L.O. To identify when crops are ready to harvest and to use these to make soup Key vocabulary: plant, vegetable, herbs, names of vegetables and herbs, wash, clean, peel, cut, chop, blend, smooth, puree, heat, boil, simmer, fry Linked to lesson Spring 1 lesson 6

Science Medium Term Plan Year A & B

Blue – Practical scientific methods, processes and transferable scientific skills Red – key vocabulary

Summer 2 Uses of everyday materialsN.C. Links: Identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard, for particular usesN.C. Links: Identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard, for particular usesN.C. Links: Identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard, for particular usesN.C. Links: Identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard, for particular usesN.C. Links: Identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard, for particular usesN.C. Links: Identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard, for particular usesN.C. Links: Identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard, for particular usesN.C. Links: Identify and compare the suitability of a variety of everyday materials including wood, metal, plastic, glass, brick, rock, paper and cardboard, for particular usesN.C. Links: Identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paperN.C. Links: Identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paperMaterial site da

- Asking simple questions and recognising they can be answered in different ways
- Observing closely, using simple equipment
- Performing simple tests
- Identifying and classifying
- Using their observations and ideas to suggest answers to questions
- Gathering and recording data to help in answering questions

Collins is the scheme of work followed but other resources can be used to supplement and complement the planning process and learning objectives

Science Enrichment activities

- Science Week
- Science Club (year 2)
- Outdoor Learning

N.C. Links: Find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching	Review and Assessment
Gathering and recording data to help in answering questions. Grouping and classifying	
MATERIALS-SHAPING UP (Collins)	
How can I change the shape of an object? L.O. To recognise that different objects made from the same material can have different properties, and to sort objects according to how their shapes can be changed Key vocabulary: squashing, bending, twisting, stretching, names of objects and the materials that they are made from, table, column, Venn diagram, set, sort	