

Fairstead Community Primary and Nursery School Science Curriculum Map 2023-24



	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
EYFS	<p>All About Me</p> <p>Vocabulary-parts of the body, senses, Feelings, emotions</p> <p>Art straw skeletons</p>	<p>Once Upon a Time</p> <p>Vocabulary- Autumn, leaves, season, colours, trees, weather, cold, wet, wind, foggy, change, light, Diwali, snow, ice, snowflakes</p> <p>Autumn walk Light- Christingles</p>	<p>Amazing Animals</p> <p>Vocabulary- Winter, seasons, weather, cold, frozen, ice, snow, Autumn, holidays , pet, habitat, climate, diet, fur, extinct, dinosaurs, wild, domestic, mammals, reptiles, fish, Arctic</p> <p>Winter/ Arctic animals What can you see in Winter? Jungle animals Farm animals Pets Extinct Animals Zoo Lab Winter walk Vet visit Winter- footprints Bird feeders Winter walk Ice - Animals in ice Hot/cold clothing Vets role play Animal footprints Habitats- making homes for animals Pets- bring in pets Jungle animal masks Jungle role play Construction- making a jungle Feathers, scales and fur</p>	<p>Oh The Places We'll Go</p> <p>Vocabulary- Spring, seasons, weather, Autumn, Winter, blossom, birth, lambs, daffodils, new life, chicks, minibeast, bug, insect, wings, legs, antennae, eyes, soil, seed, germination, water, sun, plants, leaves, stem, root, beanstalk, grow, food, eat</p> <p>Space Planting something to harvest Farm visit Seasonal clothing in role play Looking at different beans/ fruit and vegetables Spring walk Measuring</p>	<p>Come Outside</p> <p>Minibeasts Planting Where does food come from? Healthy Living Dental care</p> <p>Vocabulary- rocket, planets, orbit, space, stars, travel, sun, moon, Saturn, Mars, Jupiter, Uranus, Mercury, Venus, Neptune, astronaut</p> <p>Describe what they see, hear and feel outside. Understand the effect of changing seasons. Explore the natural world around them</p>	<p>Beside the Seaside</p> <p>Under the sea Visit to the Sea Life Centre</p> <p>Vocabulary- ocean, shark, dolphin, octopus, fish, whales, jellyfish, rockpool, crab, sand, shells, seaweed, waves, sun cream, sea/sun safety</p> <p>Making rockpools Aquarium in water tray</p> <p>Explore the natural world around them</p>

<p>Year 1</p>	<p>Understand plants and animals Working Scientifically Seasonal Changes (daily weather and seasonal plant changes)</p> <ul style="list-style-type: none"> -parts of the human body -the five senses -identifying common animals -describing and comparing structure of animals -grouping animals by their diet 	<p>Investigate materials Working Scientifically Seasonal Changes (daily weather and seasonal plant changes)</p> <ul style="list-style-type: none"> -weather associated with each season -environment walk-signs of the season -identifying and naming everyday materials -sorting objects to thematerials they are made from -describing physical propoerties of everyday materials 	<p>Understand animals and humans Working Scientifically Seasonal Changes (daily weather and seasonal plant changes)</p> <ul style="list-style-type: none"> -Polar climate animals -how polar animasl survicve polar climates -equatorial climate animals - desert climate animals and how desert animals survive desert climates - environment walk-signs of the season 	<p>Understand Plants Working Scientifically Seasonal Changes (daily weather and seasonal plant changes)</p> <ul style="list-style-type: none"> -how plants grow from seeds and bulbs -the structure of flowering plants -the structure of trees -naming deciduous and evergreen trees - environment walk-signs of the season 	<p>Understand animals and human Working Scientifically Seasonal Changes (daily weather and seasonal plant changes)</p> <ul style="list-style-type: none"> -Characteristics of insects -Life cycle of a butterfly -common garden plants -common wild plants -visit from local flower grower 	<p>Understand the Earth's movement in space Working Scientifically Seasonal Changes (daily weather and seasonal plant changes)</p> <ul style="list-style-type: none"> -what causes seasons -explore how day length varies - environment walk- signs of the season -observations over time -identifying plants on a garden visit (Sandringham) - weather forecasts
<p>Year 2</p>	<p>Understand animals and humans Working Scientifically</p> <ul style="list-style-type: none"> -animals have offspring that grow into adults -humans are animals which produce offspring -basic needs of animals including humans -effects of exercise 	<p>Investigate living things Working Scientifically</p> <ul style="list-style-type: none"> -classifying things which are living, dead, and things that have never been alive -investigate life processes which prove somting is living, not living or never lived -explore Britsih habitats 	<p>Investigating materials Working Scientifically</p> <ul style="list-style-type: none"> -identifying what everyday items are made from -investigating which everyday materials are most suitable for given purposes -explore rigidity -sorting materials according to properties 	<p>Understand plants Working Scientifically</p> <ul style="list-style-type: none"> -what plants require to grow -investigating what plants need to stay healthy -desert plants and how they survive -identifying and classifying trees -observing plant growth over time -diagrams of plant growth stages 	<p>Understand animals and humans Working Scientifically</p> <ul style="list-style-type: none"> -describe animals according to characteristics -groups animals according to characteristics -ways in which animals birth their offspring -lifecycles of a given animal -compare lifecycles of animals from different groups 	<p>Investigate living things Working Scientifically</p> <ul style="list-style-type: none"> -name plants and animals in their habitats, including microhabitats -what are microhabitats -creating microhabitats -describe how animals obtain their food- food chains -exploring how food chains transfer energy

	-food groups needed for healthy living	-world habitats- needs and how they are suited to environment -how different habitats provide basic needs	-comparative testing- which shapes make the strongest bridge?			
Year 3	Investigate materials Working Scientifically -compare and group rocks according to properties -describe rock formations -comparative testing to investigate rocks -how fossils are formed -investigating different layers of soil	Understand animals and humans Working Scientifically -classifying different animals -x-rays to explain vertebrates and invertebrates -human skeleton system -human musculature system -human nutrition, balanced diet and food groups	Understand movement, forces and magnetism Working Scientifically -investigate pushes and pulls -forces acting on objects -investigating distance travelled on a variety of slopes -investigating speed on different surfaces -magnetic forces- attracting some materials	Understand plants Working Scientifically -parts of a plant and their functions -how water is transported through plants -parts of a flower and their functions -how pollination occurs -ways in which seeds are dispersed	Understand movement, forces and magnetism Working Scientifically -magnet strength -how magnets attract or repel each other and materials -compare and group everyday materials which are attracted to magnets -magnetic field lines and poles -poles attracting and repelling each other	Understand light and seeing Working Scientifically -identifying light sources -light is reflected from surfaces -explain how shadows are made -why the size of shadows changes -how shadows change as the object changes position

<p>Year 4</p>	<p>Understand animals and humans Working Scientifically</p> <ul style="list-style-type: none"> -conditions needed for animals to survive -where animals get their nutrition -food chains -how animals get their nutrition -understanding food chains using specific vocabulary -how animals can be grouped -how energy is interconnected using food webs 	<p>Investigate materials Working Scientifically</p> <ul style="list-style-type: none"> -observing states of matter -does the shape of a container change the volume of liquid -investigating how temperature affects changes in state -evaporation and condensation -the water cycle 	<p>Investigate living things Working Scientifically</p> <ul style="list-style-type: none"> -Grouping vertebrates and invertebrates -classification keys -classifying plants -classifying invertebrates -using and creating classification keys 	<p>Investigate sound and hearing Working Scientifically</p> <ul style="list-style-type: none"> -How sound is made -how we hear sounds -investigating sound volume and distance -pitch Investigating changes in pitch 	<p>Understand animals and humans Working Scientifically</p> <ul style="list-style-type: none"> -teeth and their functions -structure of teeth -naming parts of human digestive system -functions of each part of the human digestive system - how food is digested 	<p>Understand electrical circuits Working Scientifically</p> <ul style="list-style-type: none"> -what is electricity- electrical safety -simple circuits -conductors and insulators -investigating bulb brightness -investigating complete and incomplete circuits
<p>Year 5</p>	<p>Investigate materials Working Scientifically</p> <ul style="list-style-type: none"> -investigating material hardness -determining material transparency -conductivity -reversible changes -irreversible changes 	<p>Understand movement, forces and magnets Working Scientifically</p> <ul style="list-style-type: none"> -forces and friction -what is gravity -investigating air resistance -levers and pulleys 	<p>Investigate living things Working Scientifically</p> <ul style="list-style-type: none"> -What is a lifecycle -investigating and comparing life cycles- mammal, amphibian, insect, bird -plant lifecycles -human lifecycle 	<p>Investigate materials Working Scientifically</p> <ul style="list-style-type: none"> -Separating mixtures -sieving -filtering -investigating soluble and insoluble- dissolving -heating and evaporating 	<p>Understand the Earth's movement in space Working Scientifically</p> <ul style="list-style-type: none"> -Our solar system -the Earth -day and night -phases of the moon -seasonal changes and their links to the sun 	<p>Understand humans and animals Working Scientifically</p> <ul style="list-style-type: none"> -Life processes and reproduction -asexual reproduction in plants -animal reproduction -investigating gestation periods in animals
<p>Year 6</p>	<p>Understand animals and humans Working Scientifically</p>	<p>Understand light and seeing Working Scientifically</p>	<p>Understand animals and humans Working Scientifically</p>	<p>Understand electrical circuits Working Scientifically</p>	<p>Understand evolution and inheritance Working Scientifically</p>	<p>Understand animals and humans Working Scientifically</p>

	<ul style="list-style-type: none"> -human body parts and functions -parts of the circulatory system -human heart -lungs -investigating effects of exercise and monitoring heart rate 	<ul style="list-style-type: none"> -how light travels -the pathway of light -seeing reflected light -refraction -measuring shadows 	<ul style="list-style-type: none"> -blood and the purpose of blood cells -effects of exercise -effects of drugs -nutrient types and balanced diet -absorption and filtration of nutrients 	<ul style="list-style-type: none"> -making and changing circuits -circuit components and their symbols -investigating battery/voltage and bulb brightness - investigating number of bulbs and brightness-electrical conductors and insulators 	<ul style="list-style-type: none"> -evidence for evolution -human evolution -variation in character traits -adaptations -natural selection 	<ul style="list-style-type: none"> -classification groups - Carl Linnaeus and classification -using classification keys -invertebrate classification -investigating microorganisms
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