| INSPIRED BY CHRIST | Autumn 1 | Autumn 2 | Spring 1 | Spring 2 | Summer 1 | Summer 2 |
|--|--|--|---|---|---|---|
| TRINT CE PRIMARY SCHOOL GRISCHWO-COCOMMS. 1849 H | | | | | | |
| Project Title | Transitions to school Orientation Who am I? | Journeys & festivals Where are they/we going? | Winter What happens in winter? | Spring What happens in springtime in London? | Transition to Y1 What makes us healthy? | Mini-beasts/Traditional Tales What happens in the story? |
| Science Plants Throughout the Year | Autumn Season Seasonal Walk | | Seasonal Walk visit Tree Winter | Seasonal Walk Spring Visit Tree | | Seasonal Summer Walk Visit Tree |
| | | T | Seasonal walks/Weather where appr | · | | |
| Early Learning Goals Understanding the world: The Natural World | Explore the natural world around them, making observations and drawing pictures of animals and plants -Understand some important processes and changes in the natural world around them, including the seasons and changing states of matter | | -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 | -Explore the natural world around them, making observations and drawing pictures of animals and plantsUnderstand some important processes and changes in the natural world around them, including the seasons and changing states of matter | -Explore the natural world around them, making observations and drawing pictures of animals and plants -Understand some important processes and changes in the natural world around them, including the seasons and changing states of matter | -Explore the natural world around them, making observations and drawing pictures of animals and plants |
| Early Learning Goals Expressive Arts: Creating with Materials | | -Safely use and explore a variety of materials, tools and techniques, experimenting with colour, design, texture, form and functionShare their creations, explaining the process they have used. | -Safely use and explore a variety of materials, tools and techniques, experimenting with colour, design, texture, form and functionShare their creations, explaining the process they have used. | | -Safely use and explore a variety of materials, tools and techniques, experimenting with colour, design, texture, form and functionShare their creations, explaining the process they have used. | |
| Development Matters Understanding the World | -Explore the natural world around them -Describe what they see, hear and feel whilst outside -Understand the effect of changing seasons on the natural world around them. | -Describe what they see, hear and feel whilst outside | -Explore the natural world around them -Describe what they see, hear and feel whilst outside -Recognise some environments that are different from the one in which they live -Understand the effect of changing seasons on the natural world around them. | -Explore the natural world around them -Describe what they see, hear and feel whilst outside -Understand the effect of changing seasons on the natural world around them. | -Explore the natural world around them -Describe what they see, hear and feel whilst outside -Understand the effect of changing seasons on the natural world around them. | |
| Development Matters Expressive Arts | world around them. | -Return to and build on their previous learning, refining ideas and developing their ability to represent themCreate collaboratively, sharing ideas, resources and skills. | the natural world around them. | uleni. | -Return to and build on their previous learning, refining ideas and developing their ability to represent themCreate collaboratively, sharing ideas, resources and skills. | |
| Key Scientist | | Amelia Earhart (Engineer) | Ernest Shackleton (Explorer) | David Attenborough (naturalist) | | |
| Key Vocabulary | Summer, Autumn, Season, Sun, day, dark, light, night, moon tree, trunk, branch, leaves, stem, roots head, eyes, mouth, ears, hands, fingers, feet, toes, arm, leg, hair. Elbow, knee | material, wood, plastic, glass, paper, material, shiny, metal, rock, hard, soft, fabric, smooth, rough | Spring, Autumn, Winter, Season, Sun, day, dark, light, night, moon tree, trunk, branch, leaves, , stem, petals, roots, bulb, seed | Summer, Spring, Autumn, Winter, Season, Sun, day, dark, light, night, moon tree, trunk, branch, leaves, flowers, stem, petals, fruit, roots, bulb, seed | Summer, Spring, Autumn, Winter, Season, Sun, day, dark, light, night, moon material, wood, plastic, glass, paper, material, shiny, metal, rock, hard, soft, fabric, smooth, rough | habitat, minibeast, caterpillar, chrysalis, butterfly, leaves, |

| INSPIRED BY CHRIST | 1 | 1 | | | | |
|---|--|---|--|--|---|---|
| TRINT CE PRIMARY SCHOOL CHERON CONCERNS - 1844 FIII | Autumn 1 | Autumn 2 | Spring 1 | Spring 2 | Summer 1 | Summer 2 |
| Project Title | Memory Box: How can you capture your memories? | Bright Lights, Big City: Where should everywhere Bear visit when he travels to London? Why? | Dinosaurs: How do we know dinosaurs existed? | Moon Zoom: How could you send Beegu back to the moon? | Splendid Skies: How does the weather change? | Rio de Vida: What is Brazil like compared to the UK? |
| Science Plants Throughout the | Plant crocus | Observe crocus | Plant carrots | | Observe carrots | Observe carrots |
| Year | | | Seasonal walks where appropria | ite | | • |
| Science | Animals, including Humans Big Question: Are all animals the same? | Mini Topic (3 weeks): Seasonal Changes Big Question: What changes take place between winter and autumn? | Everyday Materials Big Question: How can materials help us in our everyday life? | Everyday Materials Big Question: How can materials help us in our everyday life? | Plants Big Question: Is a tree a plant? Plants and Seasonal Changes: Do living things change or stay the same? | Animals, including Humans Big Question: Are animals the same in Brazil? |
| Key Scientist | David Attenborough Study of animals | Christopher Wren Inventor of rain gage | Henry Bessen Steel | ner | Jane Strachen Climate scientist Beatrix Potter | Bertha Maria Júlia Lutz Brazilian Zoologist |
| | Joan Proctor Zoologist and curator of reptiles | | | | Beddix Fotter | |
| Key Vocabulary | head, body, eyes, ears, mouth, teeth, leg, wing, claw, fin, scales, feathers, fur, beak, paws, hooves, touch, see, smell, taste, hear, fingers, skin, eyes, nose, ear and tongue | weather (sunny, rainy, windy, snowy etc.) Seasons (winter, summer, spring and autumn) Sun, sunrise, sunset, day length 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 | 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 | leaf, flower, blossom, petal, fruit, berry, root, seed, trunk, branch, stem, bark, stalk, bud. Plus local trees and plants. | weather (sunny, rainy, windy, snowy etc.) Seasons (winter, summer, spring and autumn) Sun, sunrise, sunset, day length | head, body, eyes, ears, mouth, teeth, leg, wing, claw, fin, scales, feathers, fur, beak, paws, hooves, touch, see, smell, taste, hear, fingers, skin, eyes, nose, ear and tongue |
| National Curriculum | Pupils should be taught to: -identify and name a variety of common animals including fish, amphibians, reptiles, birds and mammals - identify and name a variety of common animals that are carnivores, herbivores and omnivores -describe and compare the structure of a variety of common animals (fish, amphibians, reptiles, birds and mammals, including pets) -identify, name, draw and label the basic parts of the human body and say which part of the body is associated with each sense. Working Scientifically taught through | Pupils should be taught to: - observe changes across the four seasons - observe and describe weather associated with the seasons and how day length varies. Pupils should be taught to: - 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 simple physical properties of a variety of everyday materials - compare and group together a variety of everyday materials on the basis of their simple physical properties. | Pupils should be taught to: -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 simple physical properties of a variety of everyday materials - compare and group together a variety of everyday materials on the basis of their simple physical properties. | Pupils should be taught to: - identify and name a variety of common wild and garden plants, including deciduous and evergreen trees -identify and describe the basic structure of a variety of common flowering plants, including trees. | Pupils should be taught to: - observe changes across the four seasons - observe and describe weather associated with the seasons and how day length varies. | Pupils should be taught to: -identify and name a variety of common animals including fish, amphibians, reptiles, birds and mammals - identify and name a variety of common animals that are carnivores, herbivores and omnivores -describe and compare the structure of a variety of common animals (fish, amphibians, reptiles, birds and mammals, including pets) |
| | To ask simple questions and recogn - observing closely, using s - performing simple tests - identifying and classifying - using their observations a | nising that they can be answered in different ways: imple equipment | | | | |

| Autumn 1 Street Detective: What is the geography of where I live? Grow and plant daffodils and mixed bulbs Animals, including Humans Big Question: What do living things need to survive? Elizabeth Garrett Anderson | London Frost Fair: How did people enjoy themselves at London Frost Fairs? Visit Tree Living Things and their Habitats Big Question: What is alive, dead or was never alive? Prem Singh Gill | Spring 1 Fire, Fire! (Great Fire of London): How do we know so much about what happened in the Great Fire of London? Observe overtime bulbs. Uses of Every Big Question: Why do we | Spring 2 Muck, Mess and Mixtures: Can you create a marvellous mixture that is better than George's? Visit Tree day Materials choose different materials | Summer 1 The Scented Garden: Can Trent's garden be beautiful and useful? Grow runner beans and broad beans Plants Big Question: Do plants need the | Summer 2 Land Ahoy: Why do we love being beside the sea so much? Visit Tree Living Things and their Habitats |
|---|--|---|---|---|---|
| Grow and plant daffodils and mixed bulbs Animals, including Humans Big Question: What do living things need to survive? | How did people enjoy themselves at London Frost Fairs? Visit Tree Living Things and their Habitats Big Question: What is alive, dead or was never alive? | do we know so much about what happened in the Great Fire of London? Observe overtime bulbs. Uses of Every Big Question: Why do we | create a marvellous mixture that is better than George's? Visit Tree | garden be beautiful and useful? Grow runner beans and broad beans Plants | beside the sea so much? Visit Tree Living Things and their Habitats |
| Animals, including Humans Big Question: What do living things need to survive? | Living Things and their Habitats Big Question: What is alive, dead or was never alive? | Uses of Every Big Question: Why do we | rday Materials | beans Plants | Living Things and their Habitats |
| Big Question: What do living things need to survive? | Big Question: What is alive, dead or was never alive? | Big Question: Why do we | | | |
| Elizabeth Garrett Anderson | Prem Singh Gill | Charles Macintosh | | same things as humans to survive | Big Question: Are fish the only animals which live in water? |
| | | | Julie and Scott Brusar – Solar Roads | Sir Joseph Banks (Kew Gardens) | Eugenie Clark (Shark Lady) Marine conservation |
| | | | | Marie Clark Taylor Botanist | |
| offspring, reproduction, growth, child, young/old stages (for example chick/hen, baby/child/adult, caterpillar/butterfly), exercise, heartbeat, breathing, hygiene, germs, disease, food types (meat, fish, vegetables, bread, rice, pasta) | Living, dead, never been alive, suited, suitable, basic needs, food, food chain, habitat, pond, woodland, micro-habitat, logs, bushes | Properties of materials: Year 1 PLUS opa non-reflective Shape, push/pushing, pull/pulling, | e, flexible, rigid , twist/twisting, squash/squashing, | Year 1 PLUS Light, shade, sun, warm, cool, water, grow, healthy | Living, dead, never been alive, suited suitable, basic needs, food, food chain, habitat, pond, woodland, micro-habitat, logs, bushes |
| Pupils should be taught to: - notice that animals, including humans, have offspring which grow into adults - find out about and describe the basic needs of animals, including humans, for survival (water, food and air) - describe the importance for humans of exercise, eating the right amounts of different types of food, and hygiene. | Pupils should be taught to: - 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, including microhabitats - 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 | including wood, metal, plastic, glass, brick, rock, p - find out how the shapes of solid object changed | paper and cardboard for particular uses cs made from some materials can be | Pupils should be taught to: - 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 | -Pupils should be taught to: - 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, including microhabitats - 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 foo |
| | caterpillar/butterfly), exercise, heartbeat, breathing, hygiene, germs, disease, food types (meat, fish, vegetables, bread, rice, pasta) Pupils should be taught to: - notice that animals, including humans, have offspring which grow into adults - find out about and describe the basic needs of animals, including humans, for survival (water, food and air) - describe the importance for humans of exercise, eating the right amounts of different types of food, and hygiene. | caterpillar/butterfly), exercise, heartbeat, breathing, hygiene, germs, disease, food types (meat, fish, vegetables, bread, rice, pasta) Pupils should be taught to: - notice that animals, including humans, have offspring which grow into adults - find out about and describe the basic needs of animals, including humans, for survival (water, food and air) - describe the importance for humans of exercise, eating the right amounts of different types of food, and hygiene. Service and compare the differences between things that are living, dead, and things that are living, dead, and 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, including microhabitats 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 | caterpillar/butterfly), exercise, heartbeat, breathing, hygiene, germs, disease, food types (meat, fish, vegetables, bread, rice, pasta) Pupils should be taught to: - notice that animals, including humans, have offspring which grow into adults - find out about and describe the basic needs of animals, including humans, for survival (water, food and air) - describe the importance for humans of exercise, eating the right amounts of different types of food, and hygiene. Pupils should be taught to: - explore and compare the differences between things that are living, dead, and things that are 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 other animals, using the idea of a simple food chain, and identify and name different sources of food Working Scientifically taught throughout: | caterpillar/butterfly), exercise, heartbeat, breathing, hygiene, germs, disease, food types (meat, fish, vegetables, bread, rice, pasta) Pupils should be taught to: - notice that animals, including humans, have offspring which grow into adults - find out about and describe the basic needs of animals, including humans, for survival (water, food and air) - describe the importance for humans of exercise, eating the right amounts of different types of food, and hygiene. Pupils should be taught to: - 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 animals and plants, and how they depend on each other - identify and name a variety of plants and animals in their habitats, including microhabitats - describe how animals of a simple food chain, and identify and name different sources of food Working Scientifically taught throughout: | caterpillar/putterfly), exercise, heartbeat, breathing, hygiene, germs, disease, food types (meat, fish, vegetables, bread, rice, pasta) Pupils should be taught to: - notice that animals, including humans, have offspring which grow into adults - find out about and describe the basic needs of animals, including humans, for survival (water, food and air) - describe the importance for humans of exercise, eating the right amounts of different types of food, and hygiene. Pupils should be taught to: - 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 sufficient habitats to which they are sufficient habitats and animals in their habitats, including microhabitats - describe how animals with the food from plants and other animals, using the idea of a simple food chain, and identify and name different sources of food Working Scientifically taught throughout: |

using their observations and ideas to suggest answers to questions
 gathering and recording data to help in answering questions.

| TRINT CE FRAMAY SCHOOL | Autumn 1 | Autumn 2 | Spring 1 | Spring 2 | Summer 1 | Summer 2 | | |
|------------------------------|---|---|--|---|---|--|--|--|
| Project | Stone: How do we know what happened in the Stone Age? | Bronze and Iron: How did they change lives? | Tremors: Why do some earthquakes cause more damage than others? | Gods and Mortals: What was the ancient Greek's greatest achievement? | Predator: Which animal is the ultimate predator and why? | Urban Pioneers: Is graffiti art of vandalism? Why? | | |
| Science Plants throughout | Plant Potatoes | Visit Tree | Observe Potatoes | Plant spring onions in pots | | Visit Tree | | |
| Science | Light Big Question: What is the dark? | | Rocks Big Question: Are all rocks the same? | Visit Tree Plants Big Question: Do living things need different things to survive? | Animals, including humans Big Question: How do living things work? | Magnets and Forces Big Question: What can magnets do? | | |
| Key Scientist | Lewis Latimer – hel | ped invent lightbulb | Mary Anning | George Washington Carver | Bittu Sahga (conservation of tigers) | William Gilbert | | |
| | light, light source, dark, absence opaque, shiny, matt, surface, shadow | of light, transparent, translucent, v, reflect, mirror, sunlight, dangerous. | rock, stone, pebble, boulder, grain, crystal, layers, hard, soft, texture, absorb water, soil, fossil, marble, chalk, granite, sandstone, slate, soil, peat, sandy/chalky/clay soil | photosynthesis, pollen, insect/wind pollination, seed formation, seed dispersal (wind dispersal, animal dispersal, water dispersal) | nutrition, nutrients, carbohydrates, sugars, protein, vitamins, minerals, fibre, fat, water, skeleton, bones, muscles, joints, support, protect, move, skull, ribs, spine | force, push, pull, twist, contact force, non-contact force, magnetic force, magnet, strength, bar magnet, ring magnet, button magnet, horseshoe magnet, attract, repel, magnetic material, metal, iron, steel, poles, north pole, south pole. | | |
| National Curriculum | Pupils should be taught to: - recognise that they need light in or the absence of light - notice that light is reflected from so - recognise that light from the sun ca ways to protect their eyes - recognise that shadows are formed is blocked by an opaque object - find patterns in the way that the size | urfaces an be dangerous and that there are d when the light from a light source | Pupils should be taught to: - compare and group together different kinds of rocks on the basis of their appearance and simple physical properties - describe in simple terms how fossils are formed when things that have lived are trapped within rock - recognise that soils are made from rocks and organic matter. | Pupils should be taught to: - identify and describe the functions of different parts of flowering plants: roots, stem/trunk, leaves and flowers - explore the requirements of plants for life and growth (air, light, water, nutrients from soil, and room to grow) and how they vary from plant to plant - investigate the way in which water is transported within plants - explore the part that flowers play in the life cycle of flowering plants, including pollination, seed formation and seed dispersal. | Pupils should be taught to: - identify that animals, including humans, need the right types and amount of nutrition, and that they cannot make their own food; they get nutrition from what they eat - identify that humans and some other animals have skeletons and muscles for support, protection and movement. | Pupils should be taught to: - compare how things move on different surfaces - notice that some forces need contact between two objects but magnetic forces can act at a distance - observe how magnets attract or repel each other and attract some materials and not others - compare and group together a variety of everyday materials on the basis of whether they are attracted to a magnet, and identify some magnetic materials - describe magnets as having two poles - predict whether two magnets will attract or repel each other, depending on which poles are facing. | | |
| | Working Scientifically is taught throughout the year: Pupils will be taught to use the following practical scientific methods, processes and skills through the teaching of the programme of study content: - asking relevant questions and using different types of scientific enquiries to answer them - setting up simple practical enquiries, comparative and fair tests - making systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of equipment, including thermometers and data loggers - gathering, recording, classifying and presenting data in a variety of ways to help in answering questions - recording findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables - reporting on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions - using results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions | | | | | | | |

identifying differences, similarities or changes related to simple scientific ideas and processes
 using straightforward scientific evidence to answer questions or to support their findings.

| NOMINIO W CRINIT THE STATE OF | Autumn 1 | Autumn 2 | Spring 1 | Spring 2 | Summer 1 | Summer 2 | | |
|---|--|---|---|---|--|---|--|--|
| Project title | Ruthless Romans: How did the arrival of the Romans change Britain? | Road Trip USA: What could I see out of my window? | Anglo-Saxons: Who were the Anglo- Saxons and how do we know what was important to them? | Raging River: What is river? | Seen and not heard (Victorians and Queen Victoria): Who held the power in Victorian society? | Bottoms, burps and bile: What do ou bodies do with the food we eat? | | |
| Science Plants Throughout | | | | Plant Onions | Observe onions | Observe onions | | |
| Science | Sound Big Question How do we hear different sounds? | | Living Things and their habitats Big Question: What is the same and what is different? Big Que | States of Matter Big Question: Is water always wet? | Electricity Big Question: Can we control electricity? | Animals, including humans Big Question: What do animals do wit the food that they eat? | | |
| Key Scientist | Alexander Graham Bell | Miller Reese Hutchinson Hearing aid | Carl Linnaeus (Classification) | Ages Pockels (Liquids and solids) Antoine Lavoisier – developed the | Garett Morgan AND | Dr. Jessie G. Garnett First Black Dentist | | |
| | | | | modern system of naming | Benjamin Franklin | Rachel Carson (disruption to food chains) | | |
| Key Vocabulary | sound, source, vibrate, vibration, trave insul | el, pitch (high, low) volume, faint, loud, ation | classification, classification keys, environment, habitat, human impact, positive, negative, migrate, hibernate | solid, liquid, gas, state change, melting, freezing, melting point, boiling point, evaporation, temperature, water cycle. | electricity, electrical appliance/device, mains, plug, electrical circuit, complete circuit, component, cell, battery, positive, negative, connect/connections, loose connection, short circuit, crocodile clip, bulb, switch, buzzer, motor, conductor, insulator, metal, non- metal, symbol. | digestive system, digestion, mouth teeth, saliva, oesophagus, stomach small intestine, nutrients, large intestine, rectum, anus, teeth, incisc canine, molar, premolars, herbivore carnivore, omnivore, producer, predator, prey, food chain. | | |
| National Curriculum | Pupils should be taught to: - identify how sounds are made, associvibrating - recognise that vibrations from sounds - find patterns between the pitch of a sproduced it - find patterns between the volume of vibrations that produced it - recognise that sounds get fainter as the increases. | s travel through a medium to the ear ound and features of the object that a sound and the strength of the ne distance from the sound source | Pupils should be taught to: - recognise that living things can be grouped in a variety of ways - explore and use classification keys to help group, identify and name a variety of living things in their local and wider environment - recognise that environments can change and that this can sometimes pose dangers to living things. | Pupils should be taught to: - compare and group materials together, according to whether they are solids, liquids or gases - observe that some materials change state when they are heated or cooled, and measure or research the temperature at which this happens in degrees Celsius (°C) - identify the part played by evaporation and condensation in the water cycle and associate the rate of evaporation with temperature. | Pupils should be taught to: - identify common appliances that run on electricity - construct a simple series electrical circuit, identifying and naming its basic parts, including cells, wires, bulbs, switches and buzzers - identify whether or not a lamp will light in a simple series circuit, based on whether or not the lamp is part of a complete loop with a battery - recognise that a switch opens and closes a circuit and associate this with whether or not a lamp lights in a simple series circuit - recognise some common conductors and insulators, and associate metals with being good conductors. | Pupils should be taught to: describe the simple functions of the basic parts of the digestive system in humans identify the different types of teeth humans and their simple functions construct and interpret a variety of food chains, identifying producers, predators and prey. | | |
| | Working Scientifically is taught throughout the year: Pupils will be taught to use the following practical scientific methods, processes and skills through the teaching of the programme of study content: - asking relevant questions and using different types of scientific enquiries to answer them - setting up simple practical enquiries, comparative and fair tests - making systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of equipment, including thermometers and data loggers - gathering, recording, classifying and presenting data in a variety of ways to help in answering questions - recording findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables - reporting on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions - using results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions - identifying differences, similarities or changes related to simple scientific ideas and processes - using straightforward scientific evidence to answer questions or to support their findings. | | | | | | | |

| INSPIRED BY CHRIST THENT CE PRIMARY SCHOOL CHRISTIAN CHRISTIAN CHRISTIAN CHRISTIAN C | Autumn 1 | Autumn 2 | Spring 1 | Spring 2 | Summer 1 | Summer 2 |
|--|--|---|--|--|--|---|
| Project Title | Vikings and Anglo-Saxons: Raiders or settlers: How should we remember the Vikings? | Pharaoh: How can we know so much about the ancient Egyptians as they lived so long ago? | Stargazer: Could humans live on another planet? | Scream Machine: What is needed to make a spine-tingling ride? | Misty Mountain: Mountains: Natural wonders or danger zones? | Allotment: Can you grow a sandwich? Use cucumbers if ready to make sandwiches. |
| Plants Throughout | | | | Plant Cucumbers | Observe cucumbers | Observe cucumbers |
| Science | Properties and changes of materials Big Question: What are things made from and why? Are all changes reversible? | | Earth and Space Big Question: Sun, Earth, Moon – What is moving? | Forces Big Question: How do things move? | Living Things and their habitats: Lifecycles Big Question: do all lifecycles look the same? | Living things and their habitats: plants Big Question: Do all plants grow from a seed? |
| Key Scientist | Stephanie Kwolek Kevlar | Walter Lincoln Hawkins Engineering and uses of plastics | Mae Jemison | Sir Isaac Newton (gravity) | Maria Sibylla Merian Metamorphosis | Tom Hart Dyke (Orchids) |
| Key Vocabulary | solution, soluble, insoluble, filter, sid | tor, change of state, mixture, dissolve, eve, reversible/non-reversible change, ng, new material. | Earth, Sun, Moon, Mercury, Jupiter, Saturn, Venus, Mars, Uranus, Neptune, spherical, solar system, rotates, star, orbit, planets | force, gravity, Earth, air resistance, water resistance, friction, mechanisms, simple machines, levers, pulleys, gears. | life cycle, reproduce, sexual, fertilises, sperm, egg, live young, metamorphosis, puberty | life cycle, reproduce, sexual, asexual, plantlets, runners, bulbs, cuttings |
| National Curriculum | this kind of change is not usually reversiburning and the action of acid on bicarbonate of so Working Scientifically covered through Pupils will be taught to use the following planning different types of some control of taking measurements, using coording data and results of the using test results to make proporting and presenting fine. | re in liquid to form a solution, and rom a solution gases to decide how mixtures might be sieving and evaporating a comparative and fair tests, for the including metals, wood and plastic and changes of state are reversible the formation of new materials, and that sible, including changes associated with ida. | cluding recognising and controlling variable easing accuracy and precision, taking repograms and labels, classification keys, tabled and fair tests s, causal relationships and explanations of | oles where necessary eat readings when appropriate es, scatter graphs, bar and line graphs | Pupils should be taught to: - describe the differences in the life cycles of a mammal, an amphibian, an insect and a bird - describe the life process of reproduction in some animals. Pupils should be taught to: - describe the changes as humans develop to old age. | Pupils should be taught to: - describe the life process of reproduction in some plants. er presentations |

| DESTRICT OF CHRIST OF THE PROPERTY OF THE PRO | Autumn 1 | Autumn 2 | Spring 1 | Spring 2 | Summer 1 | Summer 2 |
|--|--|--|--|--|--|--|
| Project Title | Battle of Barnet: What happened in Barnet in 1471? Britain at War: What was life like during World War 2? | Britain at War: Why was winning the Battle of Britain in 1940 so important? | Frozen Kingdoms: Antarctica: everlasting winter wonderland or treacherous terrain? | Hola Mexico: Why did the ancient Maya change their way of life? | Breathing Spaces: Who are Britain's National Parks for? | Gallery Rebels: What makes art rebellious? |
| cience Plants Throughout | | | | Plant English Poppy and Phlox into pots. | Observe plants | Observe plants |
| Science | Electricity Big Question: Can we vary the effects of electricity? | Animals, including Humans Big Question: How do our choices affect how our bodies work? | Evolution and Inheritance Big Question: How do living things change over time and place? | Living Things and their habitat Big Question: What else is there beyond plants and animals? | Light Big Question: How do we see? | |
| Key Scientist | Michael Faraday AND William Kamkwamba | Ibn al-Nafis (description of pulmonary circulation of blood) | Charles Darwin (adaptation) Meeman Chang (Paleontologist) | Dame Sarah Gilbert Covid Vaccine – study of viruses Libbie Hyman Invertebrate classification | Dr Patricia Bath Laser cataract surgery Ibn al-Haytham | |
| Key Vocabulary | circuit, complete circuit, circuit diagram, circuit symbol, cell, battery, bulb, buzzer, motor, switch, voltage | Heart, pulse, rate, pumps, blood, blood vessels, transported, lungs, oxygen, carbon dioxide, nutrients, water, muscles, cycle, circulatory system, diet, exercise, drugs, lifestyle | Offspring, sexual reproduction, vary, characteristics, suited, adapted, environment, inherited, species, fossils | vertebrates, fish, amphibians, reptiles, birds, mammals, invertebrates, insects, spiders, snails, worms, flowering, non- flowering | Year 3 PLUS str | aight lines, light rays |
| National Curriculum | Pupils should be taught to: - associate the brightness of a lamp or the volume of a buzzer with the number and voltage of cells used in the circuit - compare and give reasons for variations in how components function, including the brightness of bulbs, the loudness of buzzers and the on/off position of switches - use recognised symbols when representing a simple circuit in a diagram. | Pupils should be taught to: - identify and name the main parts of the human circulatory system, and describe the functions of the heart, blood vessels and blood - recognise the impact of diet, exercise, drugs and lifestyle on the way their bodies function - describe the ways in which nutrients and water are transported within animals, including humans. | Pupils should be taught to: - recognise that living things have changed over time and that fossils provide information about living things that inhabited the Earth millions of years ago - recognise that living things produce offspring of the same kind, but normally offspring vary and are not identical to their parents - identify how animals and plants are adapted to suit their environment in different ways and that adaptation may lead to evolution. | Pupils should be taught to: - describe how living things are classified into broad groups according to common observable characteristics and based on similarities and differences, including microorganisms, plants and animals - give reasons for classifying plants and animals based on specific characteristics | Pupils should be taught to: - recognise that light appears to travel in straight lines - use the idea that light travels in straight lines to explain that objects are set they give out or reflect light into the eye - explain that we see things because light travels from light sources to our elight sources to objects and then to our eyes - use the idea that light travels in straight lines to explain why shadows have shape as the objects that cast them | |

- planning different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary
- taking measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate
- recording data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs
- using test results to make predictions to set up further comparative and fair tests
- reporting and presenting findings from enquiries, including conclusions, causal relationships and explanations of and degree of trust in results, in oral and written forms such as displays and other presentations identifying scientific evidence that has been used to support or refute ideas or arguments.