	Our Lady & St Patrick's Catholic Primary School									
	Curriculum Flight Path: Science									
	Early Years	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6			
Possible Themes	Animals including humans	Animals including humans	Animals including humans	Animals including humans	Animals including humans	Animals including humans	Animals including humans			
Substantive knowledge As a scientist, I am learning about	Knows some of the things that make them unique. Talk about some of the similarities and differences in relation to friends or family. Talk about some of the things they have observed such as animals.	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.	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.	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.	Describe the simple functions of the basic parts of the digestive system in humans. Identify the different types of teeth in humans and their simple functions. Construct and interpret a variety of food chains, identifying producers, predators and prey.	Describe the changes as humans develop to old age.	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.			
Disciplinary Knowledge As a scientist, I am learning to	Evaluating: Talk about the features and how they vary from one animal to another. Explain why some things occur and talk about changes.	Begin to identify and classify. Use appropriate scientific language to communicate ideas. Begin to use their observations and ideas to suggest answers to questions.	Use their observations and ideas to suggest answers to questions.	Begin to ask relevant questions and use different types of scientific enquiries to answer them.	Use results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions. Use straightforward scientific evidence to answer questions or to support their findings.	Begin to take measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate.	Use test results to make predictions to set up further comparative and fair tests.			

Possible leading enquiry question	How do my senses help me explore the world around me?	What team is my animal in?	What helps me to grow?	How can I look after and protect my body?	What journey does my food go on?	How will my body change as I get older?	How do I keep a healthy heart?
Vocabulary (progressive – so what are the new words?)	Animal names Family Friend Parents Brother Sister	Amphibian Reptile Mammal Invertebrate Vertebrate Carnivore Herbivore Omnivore Skeleton Bone	Offspring Reproduce Survival Growth Hygiene Exercise	Nutrition Mammal Skeleton Muscle Joint Socket Ligament Bend Flex	Digest Saliva Mouth Teeth Incisor - cutting/slicing Canine - ripping/tearing Premolar Molar - chewing, grinding Wisdom Teeth Enzyme Oesophagus Stomach Transports Absorbs Small intestine Large intestine Rectum Anus Water Vitamins Acid Producer Consumer (Secondary, Tertiary) Predator Prey	Human Development Baby Toddler Child Teenager Adult Puberty Gestation Length Mass Grows/Grow/Growing	Internal Organs Heart Lungs Liver Kidney Brain Skeletal Skeletal Skeletal Muscular Digest Digestion digestive Circulatory System Heart Blood Vessels Blood Impact Diet Exercise Drugs Lifestyle Nutrients Damage Alcohol Substances
Theme	Everyday Materials	Everyday Materials	Everyday Materials	Light	States of Matter	Properties & changes of materials	Light
Substantive knowledge As a scientist, I am learning about	Can talk about some of the things they have observed such as natural and found objects.	Distinguish between an object and the material from which it is made Identify and name a variety of everyday	Identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for	Recognise that they need light in order to see things and that dark is the absence of light. Notice that light is	Compare and group materials together, according to whether they are solids, liquids or gases	Compare and group together everyday materials on the basis of their properties, including their hardness, solubility, transparency, conductivity	Recognise that light appears to travel in straight lines. Use the idea that light travels in straight lines to explain that objects are
	Shows an interest in technological toys with knobs or pulleys, or real objects such as cameras or mobile phones.	materials, including wood, plastic, glass, metal, water, and rock Describe the simple physical properties of a	different uses. Compare how things move on different surfaces.	reflected from surfaces. Recognise that light from the sun can be dangerous	Observe that some materials change state when they are heated or cooled, and measure or research the temperature	(electrical and thermal), and response to magnets. Know that some materials will dissolve in liquid to form a solution, and	seen because they give out or reflect light into the eye. Explain that we see things because light travels from light sources to our eyes or

Disciplinary Knowledge As a scientist, I am learning to	Shows skill in making toys work by pressing parts or lifting flaps to achieve effects such as sound, movements or new images. Begin to be interested in and describe the texture of things. Predicting. Observing changes over time. Explore and perform simple tests.	materials Compare and group together a variety of everyday materials on the basis of their simple physical properties Begin to ask simple Qs and recognise that they can be answered in different ways. Begin to perform simple tests.	solid objects made from some materials can be changed by squashing, bending, twisting and stretching. Ask simple Qs and recognise that they can be answered in different ways. Perform simple tests.	 protect their eyes. Recognise that shadows are formed when the light from a light source is blocked by a solid object. Find patterns in the way that the size of shadows change. Begin to gather, record, classify and present data in a variety of ways to help in answering questions. Record findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables. 	degrees Celsius (°C) Identify the part played by evaporation and condensation in the water cycle and associate the rate of evaporation with temperature.	 substance from a solution. Use knowledge of solids, liquids and gases to decide how mixtures might be separated, including through filtering, sieving and evaporating. Give reasons, based on evidence from comparative and fair tests, for the particular uses of everyday materials, including metals, wood and plastic. Demonstrate that dissolving, mixing and changes of state are reversible changes. Explain that some changes result in the formation of new materials, and that this kind of change is not usually reversible, including changes associated with burning and the action of acid on bicarbonate of soda. Begin to plan different types of scientific enquiries to answer their own questions, including recognising and controlling variables where necessary. Begin to use test results to make predictions to set up further comparative and fair tests. 	objects and then to our eyes. Use the idea that light travels in straight lines to explain why shadows have the same shape as the objects that cast them. Record data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs.
	What are my toys made of?	How can I keep my teddy bear dry?	How can I make my car travel furthest?	Is my shadow a reflection of me?	Can a material be a solid, liquid and a gas?	How do I know if a change is reversible or irreversible?	How can I change the direction of light?

Vocabulary (progressive – so what are the new words?)	Fast Slow Smooth Rough Bumpy Material Wood Plastic Metal Paper Fabric Soft Hard	Object Properties Man-made material Natural material Malleable Non-malleable Waterproof Non-waterproof Absorbent Non-absorbent Brittle Rigid Shiny Dull Stretchy Squashy	Translucent Squashing Bending Twisting	Reflection Surface Shadow Light Source Natural light Absence of light Opaque Transparent	Solid/solidify Iron Ice Melt Freeze Liquid Evaporate Condense Gas Container Changing State Heat/heated Cool/cooled Degrees Celsius Thermometer Water cycle Evaporation Condensation Temperature Melting Warm/cool Water vapour	Solubility transparency conductive response dissolve liquid solution solute separate separating filtering sieving evaporating reversible/irreversible changes mixing melting conductivity insulation chemical rusting residue	Periscope rainbow filters refraction
Possible Theme	Living things and their habitats & Seasonal Changes	Seasonal Changes Useful to spread across the year/revisit each term.	Living things and their habitats	Rocks	Living things and their habitats	Living things and their habitats	Living things and their habitats
Substantive knowledge As a scientist, I am learning about	Developing an understanding of growth, decay and changes over time Shows care and concern for living things and the environment. Comments and asks questions about aspects of their familiar world such as the place where they live or the natural world. Developing an understanding changes over time.	Observe changes across the 4 seasons Observe and describe weather associated with the seasons and how day length varies.	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.	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.	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.	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 plants and animals.	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.

Disciplinary Knowledge As a scientist, I am learning to	Know about similarities and differences in relation to places, objects, materials and living things. Make observations of animals and plants. Talk about the features of their own immediate environment and how environments might vary from one another.	Begin to gather and record data to help in answering questions.	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. Gather and record data to help in answering questions. Identify and classify. Use appropriate scientific language to communicate ideas.	Begin to report on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions. Begin to identify differences, similarities or changes related to simple scientific ideas and processes.	Gather, record, classify and present data in a variety of ways to help in answering questions. Record findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables.	Begin to report and present findings from enquiries, inc conclusions and causal relationships, in oral and written forms such as displays and other presentations, using appropriate scientific language.	Report and present findings from enquiries, inc conclusions and causal relationships, in oral and written forms such as displays and other presentations, using appropriate scientific language
Possible	Where is the best	Do all trees stay the	Is an animal's habitat	How can rocks unlock	Who's who in the	What is the circle of	How is a woodlouse
leading enquiry	place for my	same throughout the	important?	secrets of the past?	animal kingdom and	life?	related to a crab?
question	minibeast to live?	seasons?			will they survive?		
Vocabulary (progressive – so what are the new words?)	Grow Alive Dead Desert Jungle Hot Cold Light Dark Spring Summer Autumn Winter Sun Wind Rain Cloud Snow Fog	Season Weather Equinox Sunrise Sunset Dusk Dawn Day Night Temperature Wet Dry Wind Thermometer Degrees	Habitat Microhabitat Interdependent Dependent Food chain Predator Prey Energy	Sedimentary Metamorphic Igneous Organic Volcanic Permeable Non-permeable Porous Non-porous Grains Crystals	Environment classification flowering non-flowering plants vertebrate/invertebrate dangers fish amphibians reptiles birds mammals insects plants flowering plants (including grasses) non-flowering (including mosses and ferns) human impact positive - nature reserves, ecologically planned parks,	Asexual/sexual reproduction fertilise gestation life cycle metamorphosis pollination reproduction	Micro-organisms habitat/microhabitat taxonomy bacteria virus fungi

					negative - population, development, litter, deforestation		
Possible Theme	Plants	Plants	Plants	Plants	Sound	Earth & Space	Evolution and Inheritance
Substantive knowledge As a scientist, I am learning about	Talk about some of the things they have observed such as plants. Make observations of plants and explain why some things occur.	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.	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.	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.	Identify how sounds are made, associating some of them with something vibrating. Recognise that vibrations from sounds travel through a medium to the ear. Find patterns between the pitch of a sound and features of the object that produced it. Find patterns between the volume of a sound and the strength of the vibrations that produced it. Recognise that sounds get fainter as the distance from the sound source increases.	Describe the movement of the Earth, and other planets, relative to the Sun in the solar system. Describe the movement of the Moon relative to the Earth. Describe the Sun, Earth and Moon as approximately spherical bodies. Use the idea of the Earth's rotation to explain day and night, and the apparent movement of the sun across the sky.	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.
Disciplinary Knowledge As a scientist, I am learning to	Explain why some things occur and talk about changes. Make observations of animals and plants.	Begin to observe closely, using simple equipment.	Observe closely, using simple equipment.	Begin to make systematic and careful observations and, where appropriate, take accurate measurements using standard units, using a range of equipment, including thermometers and data loggers.	Ask relevant questions and use different types of scientific enquiries to answer them. Report on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions. Identify differences, similarities or changes related to simple scientific ideas and processes.	Begin to record data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs.	

Possible leading enquiry question	What can I see in my garden?	What do I know about the trees and plants in my garden?	How can my seed change into a flower?	Which is the most important part of a flower?	How do I hear a siren?	Where does the sun go at night?	Who am I and where have I come from?
Vocabulary (progressive – so what are the new words?)	Leaf Flower Sun Water Plant Stem Growth	Common plant Wild plant Garden plant Tree Deciduous Evergreen Flowering Root Trunk	Seed Bulb Bud Temperature Healthy Germination Reproduction	Nutrients Soil Transportation Pollination Dispersal Life Cycle	Vibrate/vibration/ vibrating Air Medium Ear Hear Sound Volume Pitch Faint/fainter Loud/louder String Percussion Woodwind Brass Insulate	Earth planets solar system Moon celestial body sphere/ spherical rotate/ rotation Mercury Venus Mars Jupiter Saturn Uranus Neptune Pluto 'dwarf' planet orbit revolve geocentric model heliocentric model sundials astronomical	fossils offspring vary non identical characteristics variation evolution adaption inherit/inheritance Charles Darwin adapt environment extreme conditions advantageous/disadvantageous palaeontologists
Theme				Forces and Magnets	Electricity	Forces and Magnets	Electricity
Substantive knowledge As a scientist, I am learning about				Compare how things move on different surfaces. Notice that some forces need contact between 2 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	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.	Explain that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling object. Identify the effects of air resistance, water resistance and friction that act between moving surfaces. Recognise that some mechanisms including levers, pulleys and gears allow a smaller force to have a greater effect.	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.

	 basis of whether they are attracted to a magnet, and identify some magnetic materials. Describe magnets as having 2 poles. Predict whether 2 magnets will attract or repel each other, depending on which poles are facing. 	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.		
Disciplinary Knowledge As a scientist, 1 am learning to	Begin to set up simple practical enquiries, comparative and fair tests. Begin to use results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions. Begin to use straightforward scientific evidence to answer questions or to support their findings.	Make systematic and careful observations and, where appropriate, take accurate measurements using standard units, using a range of equipment, including thermometers and data loggers. Report on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions. Identify differences, similarities or changes related to simple scientific ideas and processes.	Begin to explain the degree of trust in results. Identify and evaluate scientific evidence (their own and others') that has been used to support or refute ideas or arguments.	Plan different types of scientific enquiries to answer their own questions, including recognising and controlling variables where necessary Take measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate.
Possible leading enquiry question	Are magnets magic?	What materials do I need to complete a circuit?	Which forces will affect my egg drop? (Egg Drop by Mini Grey)	How can we use electricity to protect the nation's treasures?
Vocabulary (progressive – so what are the new words?)	Friction Magnetic Pole Positive Negative Attract Repel	Appliances Electricity Electrical Circuit Cell Wire Bulb Buzzer Danger Electrical safety Sign Insulators	Gravity air resistance water resistance surface force effect move accelerate decelerate stop change direction	Voltage brightness volume danger series circuit safety symbols

Conductors Switch	brake mechanism pulley gear	
	spring theory of gravitation Galilei Isaac Newton	

WS (Disciplinary skills) for each theme based on focus objectives for TAPS Assessment Task for each unit rather than trying to focus on all WS in a unit. All skills covered over the year.

https://pstt.org.uk/resources/curriculum-materials/assessment

https://pstt.org.uk/application/files/5216/0388/1615/PSTT_working_scientifically_progression_grid_8.3.19.pdf

Overview of TAPS plans for Focused Assessment of Working Scientifically (Any focus can be chosen for open-ended enquiries, these are only suggestions)



Ask Qs + plan enquirySet up enquiryObserve + MeasureRecordInterpret + ReportEvaluateR plansBrown applesIncy spider shelterFrozen balloonsScavenger sortButterTaste testKS1Ask simple Qs and recognise that they can be answered in different ways*.Perform simple testsObserve closely, using simple equipment.Gather and record data to help in answering questions.Identify and classify. Use appropriate scientific lease to sugges questions.Use their obsen digas to sugges questions.Scavenger sortButterIdentify and classify. Use appropriate scientific ideas to sugges questions.Use their obsen digas to sugges questions.Scavenger sortBatterIdentify and classify. Use appropriate scientific ideas.Use appropriate scientific ideas.Use appropriate scientific ideas.Use appropriate scientific ideas.Animals inc Hum partsY1 TAPS plansMaterials: reflection test materials: toat that waterproofMaterials: foating and sinking Teddy ziplinePlantscompare growth eccapare growth units.using ar ange of equipment.Living things: woodlice habits besarding questions, nor findings using simple scientific ling susges in propriate scientific ing and nonlivingNames inc Hum materials to at materials to at measurements.LOWER (age 7-9)Ask relevant questions and use different types* of scientific enquiries to answer them.Scientific ange appropriate scientific lides and processes. Forces: scientific ange and equipment.Materials: materials that materials had to instaving ar ange of equipme	
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Y6 TAPS Electricitybulb brightness Animals inc Humans: heart rate Elect:conductive dough Living things:outdoor keys Living things Evolution: fossil plans Light questions Terrific tasters Light investigating shadows invertebrate research Evolution: egg s	
Transition Reaction catches Yeast growth Formula 1 tubs Blood splatter Lolly stick catapults Cleaning coins	

*Types of enquiry including: observing changes over time, noticing patterns, grouping and classifying, comparative and fair tests, using secondary sources. Progression statements are taken directly from England's 2014 National Curriculum, with small additions in italics from the 2018 Teacher Assessment Framework.