Firs Primary School Subject Curriculum and Progression

Science

	Early Years	Year 1	Year 2	Year 3	Year 4	Yea
National Curr	Understanding the World ELG (The Natural World ELG) Children at the expected level of development will: -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	 a) identify and name a variety of common wild and garden plants, including deciduous and evergreen trees b) identify and describe the basic structure of a variety of common flowering plants, including trees 	 c) observe and describe how seeds and bulbs grow into mature plants d) find out and describe how plants need water, light and a suitable temperature to grow and stay healthy 	 e) identify and describe the functions of different parts of flowering plants: roots, stem/trunk, leaves and flowers f) 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 g) investigate the way in which water is transported within plants h) explore the part that flowers play in the life cycle of flowering plants, including pollination, seed formation and seed dispersal 	Plants	
		 a) identify and name a variety of common animals including fish, amphibians, reptiles, birds and mammals b) identify and name a variety of common animals that are carnivores, herbivores and omnivores c) describe and compare the structure of a variety of common animals (fish, amphibians, reptiles, birds and mammals, including pets) d) identify, name, draw and label the basic parts of the human body and say which part of the body is associated with each sense 	 e) notice that animals, including humans, have offspring which grow into adults f) find out about and describe the basic needs of animals, including humans, for survival (water, food and air) g) describe the importance for humans of exercise, eating the right amounts of different types of food, and hygiene 	 2. Animals, 1 h) 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 i) identify that humans and some other animals have skeletons and muscles for support, protection and movement 	 j) describe the simple functions of the basic parts of the digestive system in humans k) identify the different types of teeth in humans and their simple functions l) construct and interpret a variety of food chains, identifying producers, predators and prey 	<i>m)</i> describe the ch humans develo

ar 5	Year 6
changes as elop to old age	 n) identify and name the main parts of the human circulatory system, and describe the functions of the heart, blood vessels and blood o) recognise the impact of diet, exercise, drugs and lifestyle on the way their bodies function p) describe the ways in which nutrients and water are transported within animals, including humans

	3. Living Things and Their Habitats					
	differen that ar things alive b) identify things which describ habitar needs o animal they de c) identify variety animal habitar micro- d) describ obtain plants using t food ch	e and compare the ence between things re living, dead, and to that have never been fy that most living is live in habitats to they are suited and be how different ats provide the basic of different kinds of als and plants, and how lepend on each other fy and name a y of plants and als in their ats, including -habitats be how animals a their food from is and other animals, the idea of a simple hain, and identify ame different sources	 e) recognise that living things can be grouped in a variety of ways f) explore and use classification keys to help group, identify and name a variety of living things in their local and wider environment g) recognise that environments can change and that this can sometimes pose dangers to living things 	 h) describe the differences in the life cycles of a mammal, an amphibian, an insect and a bird i) describe the life process of reproduction in some plants and animals 	 j) describe how living things are classified into broad groups according to common observable characteristics and based on similarities and differences, including micro-organisms, plants and animals k) give reasons for classifying plants and animals based on specific characteristics 	
 		4. Evolutio	n and Inheritance			
					 a) recognise that living things have changed over time and that fossils provide information about living things that inhabited the Earth millions of years ago b) recognise that living things produce offspring of the same kind, but normally offspring vary and are not identical to their parents c) identify how animals and plants are adapted to suit their environment in different ways and that adaptation may lead to evolution 	

5. Light and Sound
 a) recognise that they need light in order to see things and that the dark is the absence of light b) notice that light is reflected from surfaces c) recognise that light from the sun can be dangerous and that there are ways to protect their eyes d) recognise that shadows are formed when the light from a light source is blocked by a solid object e) find patterns in the way that the size of shadows changes f) identify how sounds are made, associating some of them with something vibrating g) recognise that vibrations from sounds travel through a medium to the ear h) find patterns between the pitch of a sound and features of the object that produced it i) find patterns between the volume of a sound and the strength of the vibrations that produced it j) recognise that sounds get fainter as the distance from the sound source increases
6. Electricity
 a) identify common appliances that run on electricity b) construct a simple series electrical circuit, identifying and naming its basic parts, including cells, wires, bulbs, switches and buzzers c) 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 d) recognise that a switch opens and closes a circuit and associate this with whether or not a lamp lights in a simple series circuit e) recognise some common conductors and insulators, and associate metals with being good conductors

k) l) n)	recognise that light appears to travel in straight lines use the idea that light travels in straight lines to explain that objects are 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 from light sources to 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
f) g)	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

		7. Forces and Magnets				
			 a) compare how things move on different surfaces b) notice that some forces need contact between two objects, but magnetic forces can act at a distance c) observe how magnets attract or repel each other and attract some materials and not others d) compare and group together a variety of everyday materials on the basis on whether they are attracted to a magnet, and identify some magnetic materials e) describe magnets as having two poles f) predict whether two magnets will attract or repel each other, depending on which poles are facing 		 g) explain that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling object h) identify the effects of air resistance, water resistance and friction, that act between moving surfaces i) recognise that some mechanisms, including levers, pulleys and gears, allow a smaller force to have a greater effect 	
			8. Seasonal Change a	nd Earth and Space		
	 a) observe changes across the four seasons b) observe and describe weather associated with the seasons and how day length varies 				 c) describe the movement of the Earth, and other planets, relative to the Sun d) describe the movement of the Moon relative to the Earth e) describe the Sun, Earth and Moon as approximately spherical bodies f) use the idea of the Earth's rotation to explain day and night and the apparent movement of the sun across the sky 	

9. Materials, Properties and Changes of Materials, and States of Matter					
 a) distinguish between an object and the material from which it is made b) identify and name a variety of everyday materials, including wood, plastic, glass, metal, water, and rock c) describe the simple physical properties of a variety of everyday materials d) compare and group together a variety of everyday materials on the basis of their simple physical properties 	 e) identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses f) find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching g) compare and group together when things that have lived are trapped within rock h) recognise that soils are made from rocks and organic matter 	j) compare and group materials together, m) compare and g together every			

d group eryday n the basis of rties, neir hardness, ransparency, y (electrical il), and magnets some materials e in liquid to tion, and w to recover a rom a solution dge of solids, gases to decide res might be ncluding through eving and

s, based on om comparative sts, for the uses of everyday including metals, blastic te that mixing and state are hanges t some changes e formation of tals, and that this nge is not usually including changes with burning and of acid on e of soda

	10. Working Scientifically	
a) ask simple questions and recognise that they can be answered in different ways b) observe closely, using simple equipment c) perform simple tests d) gather and record data to help in answering questions e) identify and classify f) use their observations and ideas to suggest answers to questions	 g) ask relevant questions and use different types of scientific enquiries to answer them h) set up simple practical enquiries, comparative and fair tests i) make systematic and careful observations and, where appropriate, take accurate measurements using standard units, using a range of equipment, including thermometers and data loggers j) record findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables k) gather, record, classify and present data in a variety of ways to help in answering questions l) identify differences, similarities or changes related to simple scientific ideas and processes m) report on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions n) use straightforward scientific evidence to answer questions or to support their findings o) use results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions 	 p) plan differer questions, i where nece q) take measur increasing when appro r) record data scientific d scatter gra s) identify scie refute ideas t) report and p conclusions degree of tr as displays u) use test resu comparativ

- erent types of scientific enquiries to answer us, including recognising and controlling variables ecessary
- surements, using a range of scientific equipment, with ng accuracy and precision, taking repeat readings opropriate
- ita and results of increasing complexity using c diagrams and labels, classification keys, tables, graphs, bar and line graphs
- cientific evidence that has been used to support or leas or arguments
- nd present findings from enquiries, including ions, causal relationships and explanations of and of trust in results, in oral and written forms such
- ays and other presentations
- esults to make predictions to set up further ative and fair tests

Enchanted Woodland

Year 1: 1a, 1b, 10a, 10b, 10d, 10e, 10f Year 2: 1c, 1d, 10a, 10b, 10d, 10e, 10f

Year 1: identify, describe, name, common, wild, garden, deciduous, evergreen, tree, plant, structure, leaf, stem, petal, root, trunk, branch

Year 2: observe, describe, seeds, bulbs, grow, mature, plants, water, light, dark, temperature, healthy, soil, seedling, warm, cool, hot, cold

Investigation: Are all leaves the same?

Investigation vocabulary: question, answer, gather, record, identify, classify, sort, label, observe, observation, same, different, similar

<u>Moon Zoom</u>

and Vocabulary

Topic

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Coverage

Year 1: 8a 8b, 10b, 10c, 10d, 10f Year 2: 10b, 10c, 10f

Year 1: observe, change, season, Autumn, Spring, Summer, Winter, weather, hot, cold, dun, snow, rain, wind, cloud, night, day, sunrise, sunset

Year 1 Investigation: Weather investigations e.g. wind diary or rain qauqe

Investigation vocabulary: question, answer, observe, gather, record

Year 1 and 2 investigation: Fizzy bottle rockets

https://www.rigb.org/docs/fizzubottlerockets infosheet v2 0.pdf Investigation vocabulary: question, answer, observe, test, experiment, fuel, rocket, gas, propel, chemical reaction, predict

Muck, Mess and Mixtures

Year 1: 2d, 10a, 10b, 10c, 10e Year 2: 2f, 2g, 10a, 10b, 10c, 10d, 10f

Year 1: identify, name, human, body, eyes, ears, nose, mouth, arms, hands, head, face, legs, feet, knees, elbows, shoulders, hips, fingers, toes, sight, sound, seeing, hearing, touch, feel, texture, taste, sweet, sour, bitter, salty, smell

Year 2: needs, humans, survive, survival, water, food, air, oxygen exercise, food, hygiene, healthy, unhealthy, weight, energy, sleep, rest, fruit, vegetables, carbohydrates, dairy, meat, eggs, sugar

Year 1 Investigation: Senses Investigations

https://kidshealth.org/en/kids/experiment-main.html Investigation vocabulary: question, answer, observe, test, classify, identify, predict

Year 2 Investigation: Egg Shell/healthy teeth investigation

https://www.science-sparks.com/how-to-keep-teeth-healthu/

Investigation vocabulary: question, answer, observe, test, record, change, similar, different, same, toothpaste, acid, protect, damage, predict

Rio de Vida

Year 1: 2a, 2b, 2c Year 2: 2e, 3a, 3b, 3c, 3d

Year 1: fish, amphibians, reptiles, birds, mammals, goldfish, frog, toad, newt, snake, lizard, mouse, cat, dog, pig, sheep, horse, cow, goat, chicken, pigeon, owl, blackbird, carnivore, herbivore, omnivore,

Gods and Mortals 6a, 6b, 6c, 6d, 6e

10g, 10h, 10i, 10j, 10k, 10l, 10m, 10n, 10o

Appliance, electricity, series circuit, cells, wires, bulbs, switches, buzzers, battery, lamp, loop, conductor, insulator, metal

Investigation: Conductors and Insulators

file:///C:/Users/lpugh/Downloads/Conductors And Insulators.pdf Investigation Vocabulary: enquiry, practical, comparative, fair, test, systematic, observation, findings, table, Venn diagram, record, classify, data, differences, similarities, material, evidence, findings, predictions,

<u>Urban Pioneers</u>

1e, 1f, 1g, 1h 10q, 10h, 10i, 10j, 10k, 10l, 10m, 10n, 10o

Function, flowering, roots, stem, trunk, leaves, flowers, life, growth, requirement, air, light, water, nutrients, soil, transported, life cycle, pollination, seed, formation, dispersal

Investigation: Room for Growth

https://www.farmafrica.org/downloads/2016-ahtb/science-ks2---plantgrowth-2017.pdf

Investigation Vocabulary: enquiry, practical, comparative, fair, test, systematic, observation, findings, table, record, data, differences, similarities, evidence, findings, predictions, conditions, factors

Predator 2h, 2i, 2l, 3e, 3f, 3g 10g, 10i, 10j, 10k, 10l, 10m, 10n

Animals, humans, nutrition, skeletons, muscles, support, protection, movement, food chain, interpret, producers, predators, prey, group, classification key, environment, habitat, endangered, extinct, classify, mammals, reptiles, amphibians, birds, fish

Investigation: Habitats, Soil Soup

https://www.sustainablelearning.com/resource/habitats-investigationlower-ks2

Investigation Vocabulary: observe, record, differences, similarities, change, survey, grounds, wildlife, survival, soil, pollinators, sites, ecologists, wildlife corridors, record, map, identify, explore, investigate, soil, ingredients, pollinators, wildflowers

<u>Plaulist</u> 5f, 5q, 5h, 5i, 5j 10q, 10h, 10i, 10j, 10k, 10l, 10m, 10n, 10o

Sound, vibrate, vibration, vibrating, medium, ear, pitch, low, high, sound wave, volume, loud, quiet, distance

Investigations: How does sound travel through solids, liquids and qases?

- *Hydrophone Experiment:* https://www.ogdentrust.com/assets/general/Phizzi-Practical-Make-a-hydrophone_for-website.pdf
- 'See the Sound' and 'Classic Paper Cup and String Phone' Experiments https://www.kidsacademu.mobi/storutime/sound*science-experiments/*

A Child's War

7g, 7h, 7i 10p, 10q, 10r, 10s, 10t, 10u

Unsupported, object, fall, Earth, gravity, air resistance, water resistance, friction, surfaces, mechanism, lever, push, pull, pulley, gear, force, effect, weight, heavy, light, effect

Investigation: Slipping and Sliding; testing friction

https://www.science-sparks.com/slipping-and-sliding/ Investigation vocabulary: enquiry, control, variable, measurement, precision, accuracy, repeat reading, record, data, table, scatter graph, bar graph, line graph, evidence, support, refute, report, present, findings, conclusions, causal relationships, explanation, degree of trust, predictions, comparative, fair, test

Frozen Kingdom 3j,3k

10q, 10r, 10s, 10t

classify, characteristics, similarities, differences, micro-organisms, plants, animals, producer, prey, predator, mammal, amphibian, reptile, bird, fish, invertebrate, insect, arachnid

Investigation: Melting Polar Ice Caps https://www.science-sparks.com/melting-polar-ice-caps/ findings, conclusions, causal relationships

<u>Bloodheart</u>

2n, 2o, 2p 10r, 10t

heart, blood, blood vessels, veins, arteries, nutrients, water, oxygen, waste, exercise, drugs, alcohol, cigarettes, diet, lifestyle, healthy, unhealthy, function, circulate, circulatory system, pulse, heart rate

Darwin's Delights 4a, 4b, 4c 10p, 10t

Change, time, fossils, information, inhabit, inhabited, Earth, dinosaurs, prehistoric, skeleton, offspring, vary, identical, adapt, adapted, environment, evolution, extinct

different beaks. explanation

Investigation vocabulary: measurement, centimetres, millimetres, water level, sea level, melt, ice caps, habitat, temperatures, climate change, record, diagram, line graph, evidence, refute, support,

Investigation: Dissecting Sheep's Heart https://www.instructables.com/id/Heart-Dissection/ Investigation vocabulary: diagram, label, explanation, dissect, valves, ventricles, atrium

Investigation – Who has the best beak? Understanding why birds have

https://www.stem.org.uk/resources/elibrary/resource/33665/educationpack-seeds-and-fruits-adaptation https://www.tes.com/teaching-resource/bird-beaks-6267561 Investigation vocabulary: predict, enquiry, variable, report, present,

fins, scales, tail, beak, wing, snout, legs, feet, paws, talons, claws,		
trotters, hooves, toes, skin, fur, feathers	Investigation vocabulary: enquiry, practical, comparative, fair, test, systematic, observation, findings, table, record, classify, data,	<u>Off With Her He</u> 5k, 5l, 5m, 5n
Year 2: Foal, piglet, calf, lamb, tadpole, caterpillar, kitten, puppy, egg,	differences, similarities, material, evidence, findings, predictions, solid, liquid, gas	10p, 10q, 10r, 10
hatch, baby, adult, offspring, living, dead, never alive, habitat, home, live, needs, suited, animals, plants, trees, nest, ground, sky, water, river,		Light, travel, str shadows, cast
pond, farm, forest, garden, food, food chain, predator, prey, herbivore, carnivore, omnivore, wild, domestic, seeds, nuts, berries	<u>Tribal Tales</u> 5a, 5b, 5c, 5d, 5e	Investigations: \
curnivore, onnivore, wila, aomestic, seeas, nais, berries	10g, 10h, 10i, 10j, 10k, 10l, 10m, 10n, 10o	<u>https://www.ou</u> &page= view_u
Street Detective		Investigation vo
Year 1: 1a, 1b Year 2: 1c, 1d	light, dark, reflected, reflect, reflection, surface, sun light, protection, shadow, absence, light source, solid, opaque, transparent	measurement, p table, scatter gr
1041 2. 10, 14		refute, report, p
Year 1: identify, describe, name, common, wild, garden, deciduous,	Investigation: Shadow Size	relationships, ex
evergreen, tree, plant, structure, leaf, stem, petal, root, trunk, branch	<u>file:///C:/Users/lpugh/Downloads/Investigating_Shadow_Size.pdf</u> Investigation vocabulary: enquiry, practical, comparative, fair, test,	comparative, fai
Year 2: observe, describe, seeds, bulbs, grow, mature, plants, water,	systematic, observation, findings, table, record, data, differences,	
light, dark, temperature, healthy, soil, seedling, warm, cool, hot, cold	similarities, evidence, findings, predictions, width, measurement	<u>Stargazers</u> 8c, 8d, 8e, 8f 10r, 10s, 10t
Land Ahoy	Heroes and Villains	101, 103, 101
Year 1: 9a, 9b, 9c, 9d, 10a, 10b, 10c, 10d, 10e, 10f	5a, 5b, 5c, 5d, 5e	Earth, Sun, plan
Year 2: 9e, 9f, 10a, 10b, 10c, 10d, 10e, 10f	10g, 10h, 10i, 10j, 10k, 10l, 10m, 10n, 10o	rotation, axis, d
Year 1: object, material, identify, wood, plastic, glass, metal,	light, dark, reflected, reflect, reflection, surface, sun light, protection,	Investigations: \
water, rock, fabric, properties, hard, soft, smooth, rough, bend, stretch, twist, rigid, compare, same, different, similar,	shadow, absence, light source, solid, opaque, transparent	<u>https://www.ou</u> <u>&page=view_un</u>
waterproof, light, heavy, float, sink, dissolve	Investigations: Reflective materials	Orbit modelling
	https://www.tes.com/teaching-resource/reflections-and-mirrors-6163976	https://www.bb
Year 2: identify, compare, suitable, unsuitable, materials, wood, metal, plastic, glass, brick, rock, paper, cardboard, squash, bend, stretch, twist, shape, change, waterproof, light, heavy, float, sink, dissolve	Investigation vocabulary: enquiry, practical, comparative, fair, test, systematic, observation, findings, table, record, data, differences, similarities, evidence, findings, predictions, width, measurement, shiny, matt, dull	<u>https://www.bb</u> Investigation vo support, report,
Investigation: Waterproofing coins -	mall, aut	Alchemy Island
https://www.science-sparks.com/protect-the-pirate-coins-	Tramora	9m, 9n, 9o, 9p, 9
<u>waterproofing-activity/</u> Investigation vocabulary: question, answer, observe, test, record,	<u>Tremors</u> 9g, 9h, 9i, 9j, 9k	10p, 10r, 10t, 10
change, similar, different, identify, classify, sort, observe, observation, predict	10g, 10h, 10i, 10j, 10k, 10l, 10m, 10n, 10o	Compare, group conductivity, ele
	Compare, group, same, different, similar, appearance, properties	opaque, transpa solid, gas, mixtu
<mark>Bright Lights, Big City</mark> Year 1: 9a, 9b, 9c, 9d, 10a, 10b, 10c, 10d, 10e, 10f	Sedimentary, metamorphic, igneous, fossil, formed, soil, rock, organic matter, solid, liquid, gas, state, matter, heat, cool, melt, burn,	fair, test, eviden irreversible, bur
Year 2: 9e, 9f, 10a, 10b, 10c, 10d, 10e, 10f	evaporate, temperature, degrees, Celcius, boil, freeze	Investigations: S
104 2. 70, 7J, 104, 105, 100, 104, 106, 10J	Investigation: Rock suitability (e.g. <u>https://www.tes.com/teaching-</u>	Reversible and I
Year 1: object, material, identify, wood, plastic, glass, metal,	<u>resource/rocks-and-soils-science-investigation-6403906</u>) Investigation vocabulary: purpose, permeability, durability, enquiry,	<u>https://www.ou</u> <u>&page=view_un</u>
water, rock, fabric, properties, hard, soft, smooth, rough, bend, stretch, twist, rigid, compare, same, different, similar	practical, comparative, fair, test, systematic, observation, findings,	Investigation vo
	table, record, data, differences, similarities, evidence, findings,	label,report, pre
Year 2: identify, compare, suitable, unsuitable, materials, wood, metal,	predictions	fair, tests
plastic, glass, brick, rock, paper, cardboard, squash, bend, stretch, twist, shape, change	<u>Burps, Bottoms, Bile</u> 2j, 2k	<u>Pharaohs</u> 6f, 6g, 6h
Investigation: Protect the egg – Egg Drop Challenge	10q,10h,10i, 10j, 10m	Print and In
<u>https://www.tes.com/teaching-resource/egg-drop-challenge-6408374</u> Investigation vocabulary: question, answer, observe, test, record,	mouth, oesophagus, stomach, small intestine, large intestine, gallbladder, pancreas, liver, saliva, rectum, digest, nutrition, nutrients,	Brightness, lamp electricity, elect
change, similar, different, same, identify, classify, sort, observe, observation, predict	waste, urine, faeces, teeth, gums, tongue incisors, canines, pre-molars and molars, cut, tear, grind, crush	circuit, diagram
Superheroes		Investigation: M https://www.ou

<u>ead</u>

Ds, 10t, 10u

raight, waves, reflect, light source, eyes, objects,

Yr 6 Light Investigations

<u>itstandingscience.co.uk/index.php?action=view_page</u> <u>nit&unit=6d</u>

ocabulary: enquiry, control, variable, precision, accuracy, repeat reading, record, data, raph, bar graph, line graph, evidence, support, present, findings, conclusions, causal explanation, degree of trust, predictions, air, test, diagram, spectrum, periscope, angle

nets, solar system, relative, moon, orbit, spherical, day, night, sky, stars, galaxy, universe, gravity

Yr 5 Earth and Space Investigations utstandingscience.co.uk/index.php?action=view_page nit&unit=5d

<u>bc.co.uk/bitesize/clips/zkynvcw</u> <u>bc.co.uk/bitesize/clips/z3jd7ty</u> pcabulary: record, diagram, label, evidence, refute, present, conclusion, explanation, presentation

9q, 9r Du

p, properties, hardness, solubility, transparency, lectrical, thermal, response, magnets, attract, repel, arent, dissolve, liquid, solution, recover, substance, sure, separate, filter, sieve, evaporate, comparative, nce, metals, wood, plastic, state, reversible, rning, action, acid, bicarbonate of soda

Separating Solutions, Separating Mixtures and Irreversible Changes

itstandingscience.co.uk/index.php?action=view_page
nit&unit=5c

ocabulary: enquiry, variable, data, results, diagram, esent, findings, conclusions, predictions, comparative,

np, bulb, volume, buzzer, voltage, cells, circuit, trical, components, switches, wires, symbol, series n

Making traffic lights

itstandingscience.co.uk/index.php?action=view_page htt&unit=6e

Year 1: 2d, 10a, 10b, 10c, 10d, 10e, 10f Year 2: 2f, 2g, 10a, 10b, 10c, 10d, 10e, 10f

Year 1: *identify, name, human, body, eyes, ears, nose, mouth, arms,* hands, head, face, legs, feet, knees, elbows, shoulders, hips, fingers, toes, sight, sound, seeing, hearing, touch, feel, texture, taste, sweet, sour, bitter, salty, smell

Year 2: needs, humans, survive, survival, water, food, air, oxygen exercise, food, hygiene, healthy, unhealthy, weight, energy, sleep, rest, fruit, vegetables, carbohydrates, dairy, meat, eggs, sugar

Year 1 Investigation: Senses Investigations

https://kidshealth.org/en/kids/experiment-main.html Investigation vocabulary: question, answer, observe, test, classify, *identify, predict*

Year 2 Investigation: Egg Shell/healthy teeth investigation

https://www.science-sparks.com/how-to-keep-teeth-healthu/ Investigation vocabulary: question, answer, observe, test, record, change, similar, different, same, toothpaste, acid, protect, damage, predict

Paws. Claws and Whiskers

Year 1: 2a, 2b, 2c, 10a, 10b Year 2: 2e, 2f, 3a, 3b, 3c, 3d, 10a, 10b

Year 1: fish, amphibians, reptiles, birds, mammals, goldfish, frog, toad, newt, snake, lizard, mouse, cat, dog, pig, sheep, horse, cow, goat, chicken, pigeon, owl, blackbird, carnivore, herbivore, omnivore, fins, scales, tail, beak, wing, snout, legs, feet, paws, talons, claws, trotters, hooves, toes, skin, fur, feathers

Year 2: Foal, piglet, calf, lamb, tadpole, caterpillar, kitten, puppy, egg, hatch, baby, adult, offspring, living, dead, never alive, habitat, home, live, needs, suited, animals, plants, trees, nest, ground, sky, water, river, pond, farm, forest, garden, food, food chain, predator, prey, herbivore, carnivore, omnivore, wild, domestic, seeds, nuts, berries, needs, humans, survive, survival, water, food, air, oxygen

Investigation: (If possible) Frogspawn to Tadpole; growth and change - observation over time.

Investigation vocabulary: grow, change, frogspawn, tadpole, tail, legs, head, body, egg, observe

Scented Garden

Year 1: 1a, 1b, 8a, 8b, 10a, 10b, 10c, 10d, 10f Year 2: 1c, 1d, 10a, 10b, 10c, 10d, 10f

Year 1: identify, describe, name, common, wild, garden, deciduous, evergreen, tree, plant, structure, leaf, stem, petal, root, trunk, branch, observe, change, season, Autumn, Spring, Summer, Winter, weather, hot, cold, dun, snow, rain, wind, cloud, night, day, sunrise, sunset

Year 2: observe, describe, seeds, bulbs, grow, mature, plants, water, light, dark, temperature, healthy, soil, seedling, warm, cool, hot, cold

Investigation: Observe and record the growth of plants as they change over time - setting up comparative tests to show what plants need to stay healthy.

Investigation vocabulary: observe, record, predict, compare, test, same, different

Investigation: Show the digestive system using food and a pair of tights.

https://www.stem.org.uk/resources/elibrary/resource/35396/digestivesystem-experiment

Investigation vocabulary: practical, enquiry, observation, record, explanation, present, diagram

Mighty Metals

7a, 7b, 7c, 7d, 7e, 7f 10g, 10h, 10i, 10j, 10k, 10l, 10m, 10n, 10o

Friction, fast, slow, push, pull, contact, magnetic, forces, attract, repel, materials, compare, group, poles, north pole, south pole, predict

Investigation: Magnetism through Materials

file:///C:/Users/lpugh/Downloads/Magnetism Through Materials.pdf Investigation vocabulary: enquiry, practical, comparative, fair, test, systematic, observation, findings, table, record, data, differences, similarities, evidence, findings, predictions, Venn diagram

Blue Abyss

3e, 3f, 3g, 9l, 2l 10q,10h,10i, 10j, 10m

Group, classify, classification key, mammals, reptiles, amphibians, birds, fish, environment, habitat, endangered, extinct, evaporation, condensation, precipitation, transpiration, vapor, water cycle, river, lake, sea, ocean, mountain, cloud, mouth, source, food chain, predator, prey, producer

Investigation: Water cycle investigation

https://www.science-sparks.com/make-a-mini-water-cycle/ Investigation vocabulary: practical, enquiry, observation, record, explanation, present, diagram

<u>Time Traveller</u> 2m, 3h, 3i 10r, 10s,

Foetus, baby, toddler, infant, child, teenager, puberty, old age, elderly, physical changes, emotional changes, reproduce, life cycle, gender, hormones, period, gestation, frail, mammal, amphibian, insect, bird, egg, hatch, birth, milk, reproduction, seed, pollination, nectar, pollinator, mate

age=view_unit&unit=5a

Foetal Development https://www.outstandingscience.co.uk/index.php?action=view_page&p age=view_unit&unit=5b Investigation vocabulary: line graph, data, measurement, evidence, support, refute

Investigations: Vegetative reproduction

https://www.outstandingscience.co.uk/index.php?action=view_page&p Investigation vocabulary: diagram, label

<u>Dinosaurs</u>

Year 1: 10a, 10d, 10e, 10f Year 2: 3a, 10a, 10d, 10e, 10f

Year 1: dinosaur, fossil, extinct

Year 2: Compare, same, different, similar, living, dead, never alive, extinct, endangered, fossil, skeleton, breathe, move, reproduce, dinosaur

Investigation: Did all dinosaurs have the same body parts? Investigation vocabulary: question, answer, gather, record, identify, classify, sort, label, observe, tail, legs, horns, frill, plates, claws, same, different, similar

<u>Towers, Turrets and Tunnels</u>

Year 1: 9a, 9b, 9c, 9d, 10a, 10c, 10d, 10e, 10f Year 2: 9e, 9f, 10a, 10c, 10d, 10e, 10f

Year 1: object, material, identify, wood, plastic, glass, metal, water, rock, fabric, properties, hard, soft, smooth, rough, bend, stretch, twist, rigid, compare, same, different, similar, strong, weak

Year 2: identify, compare, suitable, unsuitable, materials, wood, metal, plastic, glass, brick, rock, paper, cardboard, squash, bend, stretch, twist, shape, change, strong, weak

Investigation: The Billy Goats Gruff; Children to design and choose materials to build a bridge. Which will be the strongest? Build a variety of bridges from various materials and find out which is the strongest by putting on a weight/ object to see if it holds.

Investigation vocabulary: predict, test, record, weight, heavy, light, observation