

		Science Cu	rriculum Ove	erview	
EYFS	 Explore the natural world around them, making observations and drawing pictures of animals and plants; Pzazz Lesson Resources 1 - The Seasons 2 - The Weather 3 - My Body 4 - Animals 5 - Dinosaurs 13 - Exercise 14 - Food & Hygiene 	- 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; Pzazz Lesson Resources 1 - The Seasons 2 - The Weather 16 – Habitats	- Understand some important processes and changes in the natural world around them, including the seasons and changing states of matter. Pzazz Lesson Resources 1 - The Seasons 2 - The Weather 6 - Fizzing 7 - Liquids 8 - Changes		
	15 – Plants 17 – Bugs 18 – Flowers & Trees	9 – Materials 10 – Properties of Materials	11 – Magnets 12 – Planes and Boats		
Year 1	Plants 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,	Animals, including humans 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	Everyday materials 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	Seasonal changes Pupils should be taught to: observe changes across the four seasons observe and describe weather associated with the seasons and how day length varies. Pzazz Lesson Resources 1.1 – The Seasons 1.2 – Day Length	

Pzaz 1.10 1.14	uding trees. zz Lesson Resources – Planting – Identifying Plants – Planting Review	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. Pzazz Lesson Resources 1.8 – Zoology 1.9 – Animal Diets 1.11 – The Human Body and Taste 1.12 – Eyesight and Hearing 1.13 – Touch and Smell	 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. Pzazz Lesson Resources 1.4 – An Introduction to Materials 1.5 - Testing Materials 1.6 – Other Properties of Materials 	1.3 – Weather Around the World 1.7 – Weather Review 1.16 - Seasons Review	
habi Pupil to: ex the c betw living that alive ide	ils should be taught xplore and compare differences ween things that are g, dead, and things t have never been	PlantsPupils should be taughtto:observe and describehow seeds and bulbsgrow into mature plantsfind out and describehow plants need water,light and a suitabletemperature to growand stay healthy.	Animals, including humans Pupils should be taught to: a notice that animals, including humans, have offspring which grow into adults b find out about and describe the basic needs of animals, including humans, for	Uses of everyday materials Pupils should be taught to: identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses	

	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 micro habitats describe how animals obtain their food from plants and other animals, using the idea of a simple food chain, and identify and name different sources of food.	2.10 – Planting 2.14 – Plant Growth	survival (water, food and air) ☐ describe the importance for humans of exercise, eating the right amounts of different types of food, and hygiene. Pzazz Lesson Resources 2.1 – Animal Growth 2.2 – Animal Survival 2.3 – Food 2.4 – Exercise 2.5 – Hygiene	 ☐ find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching. Pzazz Lesson Resources 2.6 – Changing Materials 2.7 – Material Strength 2.8 - Ship Building 2.9 – Materials in History 	
Key Stage 1	Pzazz Lesson Resources2.11 – Dead or Alive?2.12 – Habitats andAdaptation2.13 – Animal FoodWorking scientificallStatutory requirementsDuring years 1 and 2, pupteaching of the programments• asking simple que• observing closely,• performing simple• identifying and closely• using their observed	bils should be taught to use me of study content: stions and recognising that using simple equipment tests	t they can be answered in they can be answered in the	entific methods, processes o different ways	and skills through the

Provide a constraint of the period of the pe	Plants Pupils should be taught o: identify and describe he functions of different parts of flowering plants: oots, stem/trunk, leaves and flowers explore the equirements of plants or life and growth (air, ght, water, nutrients rom soil, and room to grow) and how they vary from plant to plant investigate the way in which water is ransported within plants explore the part that lowers play in the life cycle of flowering plants, including pollination, seed ormation and seed dispersal. Pazz Lesson Resources 8.13 - Roots 8.14 - Leaves 8.15 - Stems 8.16 - Flowers 8.17 - Plant Growth Nutrients and Room) 8.18 - Plant Growth Light and Water)	Animals, including humans 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 Pzazz Lesson Resources 3.1 – Nutrition 3.2 – Skeletons 3.3 – Muscles	Rocks 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 Prazz Lesson Resources 3.4 - Introduction to Rocks 3.5 - Sedimentary and Metamorphic Rocks 3.6 - Igneous Rocks and Minerals 3.7 - Fossils 3.8 - Soils	Light Pupils should be taught to: recognise that they need light in order to see things and that dark is the absence of light notice that light is reflected from surfaces recognise that light from the sun can be dangerous and that there are ways to protect their eyes recognise that shadows are formed when the light from a light source is blocked by an opaque object find patterns in the way that the size of shadows change. Pzazz Lesson Resources 3.11 – Darkness, Sunlight, Reflection 3.12 - Shadows	Forces and magnets 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. Pzazz Lesson Resources 3.9 – Friction 3.10 - Magnetism
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Year 4 Livir	ing things and their	Animals, Including	States of Matter	Sound	Electricity
hab	bitats	Humans	Pupils should be taught	Pupils should be taught	Pupils should be taught
Pup	bils should be taught	Pupils should be taught	to:	to:	to:
to:		to:	compare and group	identify how sounds	identify common
🗆 re	ecognise that living	describe the simple	materials together,	are made, associating	appliances that run on
thing	ngs can be grouped	functions of the basic	according to whether	some of them with	electricity
in a	a variety of ways	parts of the digestive	they are solids, liquids	something vibrating	construct a simple
	explore and use	system in humans	or gases	recognise that	series electrical circuit,
clas	ssification keys to	identify the different	observe that some	vibrations from sounds	identifying and
help	p group, identify and	types of teeth in	materials change state	travel through a	naming its basic parts,
nam	me a variety of living	humans and their simple	when they are heated	medium to the ear	including cells, wires,
thing	ngs in their local and	functions	or cooled, and measure	find patterns between	bulbs, switches and
wide	ler environment	construct and	or research the	the pitch of a sound	buzzers
🗆 re	ecognise that	interpret a variety of	temperature at which	and features of the	identify whether or
env	vironments can	food chains, identifying	this happens in degrees	object that produced it	not a lamp will light in
	ange and that this	producers, predators	Celsius (°C)	find patterns between	a simple series circuit,
	n sometimes pose	and prey.	identify the part	the volume of a sound	based on whether or
dan	ngers to living things.	Pzazz Lesson Resources	played by evaporation	and the strength of the	not the lamp is part of
	zz Lesson Resources	4.1 - The Digestive	and condensation in	vibrations that	a complete loop with
		System	the water cycle and	produced it	a battery
4.12		4.2 - Teeth	associate the rate of	recognise that sounds	recognise that a
		4.3 - Food Chains	evaporation with	get fainter as the	switch opens and
			temperature.	distance from the sound	closes a circuit and
			Pzazz Lesson Resources	source increases.	associate this with
			4.6	Pzazz Lesson Resources	whether or
			Solids	4.13 - An Introduction to	not a lamp lights in a
			States of Matter	Sound	simple series circuit
			View Video View	4.14 - How Sounds Travel	recognise some
			Resources	4.15 - Sound and Pitch	common conductors
			4.7 - Liquids	4.16 - Sound and	and insulators, and
			4.8 - Gases	Volume	associate metals with
			4.9 - Changes of State	4.17 - Sound and	being good
			4.10 - The Water Cycle	Distance	conductors.
					Pzazz Lesson
					Resources
					4.4 - Circuits
					4.5 - Electrical
					Conductors

Lower Key Stage 2 (Y3 & 4)	 teaching of the programmer asking relevant que setting up simple p making systematic using a range of eace gathering, recording recording findings reporting on finding conclusions using results to draw questions identifying differentiation 	ils should be taught to use me of study content: estions and using different ractical enquiries, compar- and careful observations of quipment, including thermo- ng, classifying and presenti using simple scientific langu gs from enquiries, including w simple conclusions, make ces, similarities or changes	and, where appropriate, to	to answer them king accurate measureme is to help in answering ques iagrams, keys, bar charts, c ons, displays or presentatio s, suggest improvements an ideas and processes	ents using standard units, stions and tables ns of results and
Year 5	Living things and their habitats Statutory requirements 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 plants and animals. Pzazz Lesson Resources 5.17 - Animal Life Cycles and Reproduction 5.18 - Plant Reproduction	Animals, including humans Statutory requirements Pupils should be taught to: describe the changes as humans develop to old age. Pzazz Lesson Resources 5.16 The Human Lifecycle	Properties and changes of materials Statutory requirements Pupils should be taught to: compare and group together everyday materials on the basis of their properties, including their hardness, solubility, transparency, conductivity (electrical and thermal), and response to magnets know that some materials will dissolve in liquid to form a solution, and describe how to recover a substance from a solution	Earth and space Statutory requirements Pupils should be taught to: 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	Forces Statutory requirements Pupils should be taught to: 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

use knowledge of	movement of the sun	force to have a
solids, liquids and gases	across the sky.	greater effect.
to decide how mixtures	Pzazz Lesson Resources	Pzazz Lesson
might be separated,	5.14 - The Solar System	Resources
ncluding through	5.15 - The Earth and the	5.1 - Gravity
filtering, sieving and	Moon	5.2 - Friction
evaporating	MOON	5.3 - Air Resistance
give reasons, based		5.4 - Water Resistance
on evidence from		5.5 - Levers. Pulleys and
comparative and fair		Gears
tests, for the particular		Gedis
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,		
ncluding changes		
associated with burning		
and the action of acid		
on bicarbonate of soda.		
Pzazz Lesson Resources		
5.6 - Burning		
5.7 - Acid and		
Bicarbonate of Soda		
5.8 - Dissolving, Mixtures		
and Changes of State		
5.9 - Separation by		
Filtration and Sieving		

			5.10 - Separation by		
			Evaporation		
			5.11 - Hardness		
			5.12 - Transparency and		
			Magnetism		
			5.13 - Thermal and		
			Electrical Conductivity		
Year 6	Living things and their	Animals including	Evolution and	Light	Electricity
	habitats	humans	inheritance	Statutory requirements	Statutory requirements
	Statutory requirements	Statutory requirements	Statutory requirements	Pupils should be taught	Pupils should be taught
	Pupils should be taught	Pupils should be taught	Pupils should be taught	to:	to:
	to:		to:	 recognise that light 	\square associate the
	 describe how living 	□ identify and name the	 recognise that living 	appears to travel in	
			5		brightness of a lamp or the volume of a buzzer
	things are classified into	main parts of the	things have changed	straight lines	
	broad groups	human circulatory	over time and that fossils	□ use the idea that light	with the number and
	according to common	system, and describe	provide	travels in straight lines to	voltage of cells used in
	observable	the functions of the	information about living	explain that objects are	the circuit
	characteristics and	heart, blood vessels and	things that inhabited the	seen	compare and give
	based on similarities and	blood	Earth millions of years	because they give out	reasons for variations in
	differences, including	recognise the impact	ago	or reflect light into the	how components
	micro-organisms, plants	of diet, exercise, drugs	recognise that living	еуе	function, including the
	and animals	and lifestyle on the way	things produce offspring	explain that we see	brightness of bulbs, the
	give reasons for	their bodies function	of the same kind, but	things because light	loudness of buzzers
	classifying plants and	describe the ways in	normally offspring vary	travels from light sources	and the on/off position
	animals based on	which nutrients and	and are not identical to	to our eyes or from light	of switches
	specific characteristics.	water are transported	their parents	sources to objects and	🗆 use recognised
	Pzazz Lesson Resources	within animals, including	□ identify how animals	then to our eyes	symbols when
	6.7 - Microorganisms	humans.	and plants are adapted	□ use the idea that light	representing a simple
	6.8 - Classification	Pzazz Lesson Resources	to suit their environment	travels in straight lines to	circuit in a diagram.
		6.1 - The Heart and the	in different ways and	explain why shadows	Pzazz Lesson
		Circulatory System	that adaptation may	have the same shape	Resources
		6.2 - Diet	lead to evolution.	as the objects that cast	6.5 - Circuits
		6.3 - Exercise, Drugs and	Pzazz Lesson Resources	them.	
		Lifestyle	6.9 - Adaption	Pzazz Lesson Resources	
		6.4 - The Transport of	6.10 - Inheritance	6.6 How Light Travels	
		Water and Nutrients	6.11 – Evolution		

Upper	Working scientifically
Key	Statutory requirements
Stage 2	During years 5 and 6, pupils should be taught to use the following practical scientific methods, processes and skills through the teaching of the programme of study content:
(Y5 & 6)	• 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.