

John Perryn Primary School (References are from the National Curriculum)

Connected Curriculum Framework - Whole School Overview – Science

	Autumn1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 1	<u>Human Body</u> Labels Senses How do senses help us experience the world?	<u>Materials/ Magnets and Seasons - Autumn and Weather</u> Everyday material What is an object/ material? What material are magnetic?	<u>Taking Care of the World/ Seasons Winter and Weather</u> The Earth's natural resources, conservation of natural resources, logging, recycling, how pollution is caused and can be prevented.	<u>Animals and their needs/ Seasons - Spring and Weather</u> Living things, naming/ grouping/ describing animals, how plants and animals obtain food, offspring, caring for animal babies, caring for pets. Can you leap like a frog?	<u>Animals and their needs/ Seasons – Spring and Weather</u> How plants and animals obtain food, offspring, caring for animal babies, caring for pets. Whose poo?	<u>Plants/ Seasons: Summer and Weather</u> The parts and functions of plants, food production, flowers and seeds, deciduous and evergreen, farming, crops, pesticides, harvest, from field to supermarket. What plants need to survive?
Year 2	<u>The Human Body</u> The skeletal and muscular systems, exercise, digestive system and healthy eating, circulatory system, preventing illness, germs and disease, animals and their offspring.	<u>Living Things in their Environments</u> Habitats: rainforest, desert, meadow and underground habitats. Food chains, oceans and undersea habitats, deep ocean habitats and habitat destruction and damage	<u>Electricity</u> Circuits, conductive and non-conductive materials, safety rules.	<u>Plants</u> Seeds and bulbs, plants and water, light, temperature, healthy plants	<u>Astronomy</u> Our solar system, orbit and rotation, sun, moon, planets, stars, constellations.	<u>Materials and Matter</u> Comparing materials, changing materials, concepts of atoms, matter, solids, liquids, gases, measurements
Year 3	<u>The Human Body</u> The digestive system, teeth and senses, a healthy diet, nutrition, vitamins and minerals, skeletons and muscles for support, protection and movement	<u>Rocks</u> Sorting rocks, how rocks are formed, hardness and permeability, fossils, soil	<u>Light</u> How light travels, shadows, transparent and opaque objects, reflection, mirrors: plane, concave, convex, how shadows change throughout the day.	<u>Cycles in Nature</u> Seasonal cycles and plants, animal migration. Life cycles of a plant and a frog.	<u>Plants</u> Functions of plants: roots, stem/trunk, leaves and flowers, Life and growth, variety of plants, water transportation, seed formation and dispersal	<u>Forces and Magnets</u> Forces, friction, magnets, magnetic poles, magnetic fields, law of magnetic attraction, compasses
Year 4	<u>States of Matter and the Water Cycle</u> Change of state, evaporation, condensation, precipitation, humidity, groundwater.	<u>Electricity</u> Electric current, series and parallel circuits, switches, closed circuit, open circuit, short circuit, conductors and insulators	<u>Sound</u> How sound is created, how sound travels, sound waves, speed of sound, pitch, intensity, the human voice, hearing, the human ear.	<u>The Human Body</u> The muscular system, the skeletal system, the nervous system, the digestive system, teeth	<u>Classification of Plants and animals</u> Cold-blooded or warm-blooded, vertebrates or invertebrates, characteristics of animal classes, classification of plants.	<u>Ecology</u> Habitats, interdependence of organisms and their environment, producers, consumers and decomposers, food webs, producers, predators and prey, fossils, man-made threats to the environment.

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Year 5	<u>Materials</u> Properties Separation /mixtures Reversible/irreversible changes	<u>Forces</u> Gravity/air and water resistance/friction,	<u>Forces</u> levers/ pulleys/ gears	<u>Earth and Space</u> Sun/ Earth/ moon/ solar system. Earth's rotation- day and night	<u>All living things</u> Life cycles - mammal/ amphibian/ insect/ bird Reproduction - plants and animals	<u>Animals including Humans</u> Reproduction Development
Year 6	<u>Evolution and inheritance</u> Fossil/ evolution Offspring /adaption	<u>All living things</u> Classification Micro-organism/plant/ Animals.	<u>Animals including humans</u> Human circulatory system- transportation water/ nutrients	<u>Animals including humans</u> Effects-diet, exercise, drugs and lifestyle	<u>Light</u> Straight lines/ reflection/ shadows	<u>Electricity</u> Circuit/ symbols/ components