Purleigh Primary School: Science Curriculum Overview

Year Group	Autumn	Spring	Summer
EYFS	**Seasonal Changes** **States of Matter** **The Human Body**	**Seasonal Changes** **Inventions/Electricity**	**Seasonal Changes** **Plants** **Animals, including Humans** **Living things and their Habitats**
	Observe changes across the four seasons Observe and describe weather associated with the seasons Observe changes in states of matter Human body parts The senses Observe the effects of food and exercise of our bodies	Observe changes across the four seasons Observe and describe weather associated with the seasons Electrical inventions How electricity is used in our everyday lives	Observe changes across the four seasons Observe and describe weather associated with the seasons Understand where food comes from, including how and where it grows Identify a variety of food groups and plants Exercise, food and hygiene Identify and label simple parts of a plant Life cycles Identify features of animals, including special features that serve a purpose Habitats (including microhabitats) and how animals have adapted to live there
Scientist/Inventor		**Steve Jobs** **Alexander Graham Bell**	**Monty Don** **Chris Packham**

Year 1	**Animals, including Humans** **Seasonal Changes**	**Everyday Materials** **Seasonal Changes**	**Plants** **Animals, including Humans** **Seasonal Changes**
	Human body parts The senses Animal body parts Observe changes across the 4 seasons Observe and describe weather associated with the seasons and how day length varies	Describe the simple physical properties of a variety of everyday materials Compare and group everyday materials based on their physical properties Observe changes across the 4 seasons Observe and describe weather associated with the seasons and how day length varies	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 Name a variety of common animals that are carnivores, herbivores and omnivores
Scientist / Inventor	**George James Symons** **Christopher Wren**	**Ole Kirk Christiansen** **Charles Macintosh**	**Steve Backshall**
Year 2	**Animals, including Humans**	**Uses of Everyday Materials**	**Living Things and their Habitats** **Plants**
	Healthy Bodies Exercise, food and hygiene Basic needs for survival	Identify and compare the uses of a variety of everyday materials for particular purposes Find out how the shapes of some solid objects can be changed by squashing, bending, twisting and stretching	Living, dead, never alive. Dependency Food Chains
Scientist / Inventor	**Louis Pasteur**	**John Boyd Dunlop** **John McAdam**	**David Attenborough**

Year 3	**Animals, including Humans** **Light**	**Forces and Magnets**	**Rocks and Soils** **Plants**
	Skeletons and muscles Food groups and nutrition How nutrients, oxygen and water are transported round the body Light is needed to see (and dark is the absence of light) Reflected light Sun dangers and eye protection Shadows	Pushes and pulls Friction and surfaces Magnetic attraction and repulsion	Compare and group rocks Describe and explain the differences between sedimentary and igneous rocks How fossils are formed Soil Parts of plants and their functions What a plant needs to grow Plant life cycle
Scientist / Inventor	**Marie Curie**	**Isaac Newton**	**Mary Anning**
Year 4	**States of Matter**	**Electricity** **Sound**	**Animals, including Humans** **Living Things and their Habitats**
	Solids, Liquids & Gasses Compare and group materials Heating and cooling Reversing changes Evaporation and temperature Water Cycle	Common electrical appliances Basic electrical components Electrical circuits and switches Conductors and insulators Sound as a form of energy created by vibrations Pitch and volume Sound and distance	The digestive system Types of human teeth and their functions Food chains, identifying producers, predators and prey Grouping living things Classification keys of living things Environments and how they change
Scientist / Inventor	**Anders Celsius**	**Thomas Edison**	**Carl Linneaus** **David Attenborough**

Year 5	**Properties and Changing of Materials**	**Earth and Space Forces**	**Animals, including Humans Living Things and their Habitats**
	Properties of Materials Insulation Conductors Dissolving, Mixing and Changes of State Separating Substances	Spherical Bodies and Planets Geocentric Versus Heliocentric Night and Day (Movement of the Moon) Gravity Air/Water Resistance and Friction Mechanisms	Making New Plants Mammals Metamorphosis Comparing Life Cycles Growth of Babies Puberty Changes in Old Age Gestation Periods
Scientist / Inventor	**Ancient Scientists** **Spencer Silver/Ruth Benerito**	**Galileo** **Neil Armstrong** **Isaac Newton**	**War time medicine** **Jane Goodall**
Year 6	**Living things and their Habitats** **Animals, including humans**	**Electricity** **Light**	**Evolution and Inheritance**
	The Heart The double loop circulation system Blood vessels Blood cells Impact on health of drugs, alcohol, exercise and lifestyle Carl Linnaeus Taxonomy Hierarchy of Classification Reasons for classification Criteria for classifying organisms Dichotomous keys	Light emitted v. number of bulbs / voltage supplied Functions of components Switches Circuit diagram Symbology Light travels in straight lines How we see Structure of the eye Objects that are light sources Reflection and refraction Shadows	Organisms have changed over time Adaptation Fossil evidence Mary Anning, Charles Darwin, Alfred Wallace Survival of the fittest Similarities of offspring to parents Shared characteristics Basic genetics (eye colour / biological gender) Link into P.S.H.E. element of S.R.E. How babies are made.
Scientist / Inventor	**Sir Alexander Fleming**	**Nikola Tesla**	**Charles Darwin**