Hiltingbury Junior School – Existing Science Curriculum Map

Long Term Map Overview

	Autumn Term		Spring Term		Summer Term	
Year R	**ELG -** To know about similarities and differences in relation to materials and objects.	**ELG** – Talk about the features of their own immediate environment and how they might vary from one another. (Compare Space/Earth)	ELG – Make observations of animals (humans) and explain why some things occur and talk about changes. (Specifically bodies) ELG – To know about similarities and differences in relation to living things.	ELG – Talk about the features of their own immediate environment and how they might vary from one another. (Compare land and under the sea) ELG – Make observations of animals (humans) and explain why somethings occur and talk about changes.	ELG – Make observations of animals and plants and explain why somethings occur and talk about changes. ELG –To know about similarities and differences in relation to places and living things. (Look at life cycles of butterfly, frog, chick and sunflower)	ELG - To talk about the features of their own immediate environment and how they might vary from one another. ELG - To make observations of animals, plants and explain why some things occur and talk about changes. (Observations of mini-beasts and plants)
Year 1	**Animals inc humans Seasonal changes**	**Everyday materials Seasonal changes**	**Everyday materials Seasonal changes**	**Forces Seasonal Changes**	**Plants Seasonal Changes**	**Animals (Herbivore and Carnivore)**
Year 2	**Plants**	**Uses of everyday materials**	**Animals inc humans (offspring, basic needs of animals and humans)**		**Living things and their habitats (animals)**	**Living things and their habitats (plants)**
Year 3	**Magnets** (6 lessons)	**Rocks and Soils** (4 lessons)	**States of Matter** (7 lessons)	**Animals: Skeletons and Movement** (6 lessons)	**Plants and Food Production** (6 lessons)	**Light** (6 lessons)
Year 4	**States of Matter** (7 lessons)	**Mixtures and separating them** (8 lessons)	**Digestion** (including Food Chains & Nutrition) (7 lessons)	**Living Things** (Classification, Life Cycles and Environmental Change) (6 lessons)		**Electricity** (6 lessons)
Year 5	**Space and Gravity** (8 lessons)	**Forces that oppose motion** (8 lessons)	**Mixtures and separating them Making new substances** (16 lessons)		**Circulation** (7 lessons)	**Plant Reproduction** (4 lessons)
Year 6	**Light** (7 lessons)	**Electricity** (8 lessons)	**Circulation** (7 lessons)	**Fossils, geological time and**	**Classification and Evolution** (7 lessons)	

				classification (4 lessons)	
Year 7	**Cells** **Particles** **Forces**	**Reproduction** **Energy** **Atoms, Elements and Compounds**		**Electricity** **Separating mixtures** **Ecology**	

** N.B. This long term map has been formulated in partnership with HIAS Science leads to support the school moving units to facilitate strong substantive knowledge progression. This

transition is carefully mapped to ensure every cohort will have full coverage across their KS2 journey which is the reason for some overlap of units during this planned period of change.

Links in Substantive knowledge

	Autumn Term		Spring Term		Summer Term	
Year 3	**Magnets** (6 lessons) *Yr1/2 links - Pushes and Pulls, Forces change how things move.*	**Rocks and Soils** (4 lessons)	**States of Matter** (7 lessons) *Yr1/2 links – Everyday materials and uses. Comparisons of differences*	**Animals: Skeletons and Movement** (6 lessons) *Yr1/2 links - describe what animals need and basic needs of humans.*	**Plants and Food Production** (6 lessons) *Yr1/2 links – where plants come from and introduction to germination. Develop understanding of the functions of the different parts of a plant*	**Light** (6 lessons) *Yr 1/2 links - seasonal changes*
Year 4	**States of Matter** (7 lessons) *Yr1/2 links – Everyday materials and uses. Comparisons of differences between materials.*	*between materials.* **Mixtures and separating them** (8 lessons) *Yr4 links - Must understand the properties of S, L and G to understand how to separate.*	**Digestion** (including Food Chains & Nutrition) (7 lessons) *Yr2 links – Introduction to the basic needs of humans and the importance of exercise and nutrition. Yr4 links - Apply knowledge of dissolving.*		**Living Things** (Classification, Life Cycles and Environmental Change) (6 lessons) *Yr1/2 links - Introduction to groups of animals.*	**Electricity** (6 lessons)
Year 5	**Space and Gravity** (8 lessons) *Yr3 links – light from the sun links to temperature on planets.*	**Forces that oppose motion** (8 lessons) *Yr1/2 links - Forces change how things move. Yr3 links - Magnets affect how things move so are forces, but non-contact. Currently also explore friction.*	**Mixtures and separating them** **Making new substances** (16 lessons) *Yr4 links - Must understand the properties of S, L and G to understand how to separate. Links between dissolving and digestive system*		**Circulation** (7 lessons) *Yr4 links - knowledge of how nutrients get into the blood, Yr5 knowledge builds on this and describes how oxygen enters the blood and gets round the body*	**Plant Reproduction** (4 lessons) *Yr 2 links - plants make seeds that can grow into new plants. Yr 3 links - food production, functions of the parts of a plant*
Year 6	**Light** (7 lessons) *Yr3 links - Application and mastery of Year 3 unit.*	**Electricity** (8 lessons) *Yr4 links - Application and mastery of Year 4 unit.*	**Circulation** (7 lessons) *Yr4 links - knowledge of how nutrients get into the blood, Yr6 knowledge builds on this and describes how oxygen enters the blood and gets round the body.*		**Fossils, geological time and classification** (4 lessons) *Yr3 links – Fossils and rocks.*	**Classification and Evolution** (7 lessons) *Yr4 links - Introduction to classification and classification keys. Variation and reproduction leads to adaptation and evolution.*

New unit for the year group in 2022-2023

An existing unit which won't be remaining in the year group