Ravensthorpe Primary School – Science Long term Plan

	Y1	Y2	Y3	Y4	Y5	Y6
Autumn 1	BIOLOGY Plants Identifying and naming common plants and describing basic structures	BIOLOGY Plant growth Plants grow from seeds and require water, light and a suitable temperature	CHEMISTRY: Rocks Comparisons of types of rocks and how fossils are formed	BIOLOGY Classifying Organisms Introduction to classifying animals and their environment	CHEMISTRY Separating Mixtures Identifying and separating mixtures; reversible and non-reversible changes	PHYSICS Electricity Investigating variations in series and parallel circuits, and how electricity is generated
Autumn 2	BIOLOGY / PHYSICS Seasonal changes Observing changes across four seasons and describing associated weather	BIOLOGY Needs of Animals Animals need water, food and air to survive and to have offspring	PHYSICS Light Relationship between light and how we see; the formation of shadows	BIOLOGY Food and Digestion The human digestive system and simple food chains	PHYSICS Energy Introducing the concept of energy stores and energy transfers; relate this to prior knowledge	BIOLOGY Evolution Fossils; introduction to the idea that adaptation may lead to evolution
Spring 1	CHEMISTRY Everyday Materials Distinguishing objects from their material, and describing simple properties	CHEMISTRY Uses of Everyday Materials Comparisons of an object's material with its use; impact of bending, twisting on solid objects	BIOLOGY Organisms The role of muscles and skeletons; the importance of nutrients	CHEMISTRY Particle model & States of Matter States of matter in relation to particle arrangement	PHYSICS Earth and Space Movements of planets and the Moon, and relationship today and night	PHYSICS Light How light travels and is reflected, and how this allows us to see
Spring 2	Consolidation and review Include follow up for seasonal changes	BIOLOGY Living Things & their Habitats Introduction to habitats, micro-habitats, and simple food chains	BIOLOGY Plants Features of flowering plants and what they need to survive	PHYSICS Sound Relationship between strength of vibrations and volume of sound	PHYSICS Forces Gravity, air and water resistance and friction; introduction to pulleys	BIOLOGY Further Classification Further classification of organisms based on characteristics
Summer 1	BIOLOGY Animals Naming reptiles, fish, amphibians, birds and mammals; carnivores, herbivores, omnivores	CHEMISTRY Solids, liquids and Gases How the same substances can exist as solids, liquids and gases	PHYSICS Forces & Motion Introducing pushes and pulls; opposing forces, and balanced forces	PHYSICS Electricity Simple series circuits	BIOLOGY Life Cycles Life cycles of a mammal, amphibian, insect, bird, and some reproduction processes	CHEMISTRY Physical and Chemical changes Identifying physical and chemical changes
Summer 2	BIOLOGY Humans Human body parts and senses	Consolidation and review	PHYSICS Magnetism Contact and non-contact forces, including friction and magnetism	CHEMISTRY properties of Materials Considering physical and chemical properties	BIOLOGY Human Development Human development to old age	BIOLOGY Functions of Human body Human circulatory system; transport of nutrients within the body