Science Yearly Overview

	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Autumn 1	How we grow Bean Diary	**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; difference between 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 & digestion** The human digestive system and simple food chains	**Biology, Chemistry, Physics** **Energy** Introducing the concept of energy stores and energy transfers, and relating this to prior knowledge	**Biology** **Evolution** Fossils; introduction to the idea that adaptation may lead to evolution
Spring 1	Spring / Nature Walks	**Chemistry** **Everyday materials** Distinguishing objects from the material it's made from, 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** **Living organisms** The role of muscles and skeletons; the importance of nutrients	**Chemistry** **Particle model and states of matter** States of matter in relation to particle arrangement	**Biology** **Life cycles** Life cycles of a mammal, amphibian, insect and bird, and some reproduction processes	**Physics** **Light** How light travels and is reflected, and how this allows us to see
Spring 2			**Biology** **Living things & their habitats** Basic introduction to habitats and microhabitats, and simple food chains	**Biology** **Plants** The key features of flowering plants and what they need to survive	**Physics** **Sounds** Relationship between strength of vibrations and volume of sound	**Biology** **Human development** Human development to old age	**Biology** **Further classification** Further classification of living organisms based on characteristics
Summer 1	Science detectives Seasons and Weather	**Biology** **Animals** Identifying and naming fish, amphibians, reptiles, birds and mammals; carnivores, herbivores and omnivores	**Chemistry** **Solids, liquids and gases** Understanding 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	**Physics** **Forces** Gravity, air and water resistance and friction; introduction to pulleys	**Biology** **Functions of the human body** Human circulatory system; transport of nutrients within the body
Summer 2		**Biology** **Humans** Human body parts and senses	**Consolidation and review**	**Physics** **Friction & magnetism** Contact and non-contact forces, including friction and magnetism	**Chemistry** **Properties of materials** Considering physical and chemical properties	**Physics** **Earth and space** Movements of planets and the Moon, and relationship to day and night	**Chemistry** **Physical and chemical changes** Identifying physical and chemical changes