Science at Nova Primary Academy

	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Autumn		**Plants** Identifying and naming common plants and describing basic structures. **Seasonal changes** Observing changes across four seasons and describing associated weather.	**Plant growth** Plants grow from seeds, and required water, light and a suitable temperature. **Needs of animals** Animals need water, food and air to survive and to have offspring.	**Rocks** Comparisons of types of rocks and how fossils are formed. **Light** Relationship between light and how we see, the formation of shadows.	**Classifying organisms** Introduction to classifying animals and their environment. **Food & digestion** The human digestive system and simple food chains.	**Separating mixtures** Identifying and separating mixtures; reversible and non-reversible changes. **Energy** Introducing the concept of energy stores and energy transfers; relate this to prior knowledge.	**Electricity** Investigating variations in series and parallel circuits, and how electricity is generated. **Evolution** Fossils: introduction to the idea that adaption may lead to evolution.
Spring	**Spring in our step** Wildlife and weather in spring and winter; habitats around our school.	**Everyday materials** Distinguishing objects from their material and describing simple properties. Consolidation and review.	**Uses of materials** Comparisons of an object's material with its use; impact of bending, twisting on solid objects. **Living things & habitats** Introduction to habitats, micro-habitats, and simple food chains.	**Organisms** The role of muscles and skeletons; the importance of nutrients. **Plants** Features of flowering plants and what they need to survive.	**Particle model and states of matter** States of matter in relation to particle arrangement. **Sounds** Relationship between strength of vibrations and volume of sound.	**Forces** Gravity, air and water resistance and friction; introduction of pulleys. **Earth and space** Movements of planets and the Moon, and relationship to day and night.	**Light** How light travels and is reflected, and how this allows us to see. **Further classification** Further classification of organisms based on characteristics
Summer	**Science detectives** Properties of materials and habitats around the world.	**Animals** Naming reptiles, fish, amphibians, birds and mammals; carnivores, herbivores, omnivores. **Humans** Human body parts and senses.	**Solids, liquids and gases** How the same substances can exist as solids, liquids and gases. Consolidation and review.	**Forces & motion** Introducing pushes and pulls; opposing forces, and balanced forces. **Magnetism** Contact and non-contact forces, including friction and magnetism.	**Electricity** Simple series circuits. **Properties of materials** Considering physical and chemical properties.	**Life of cycles** Life cycles of a mammal, amphibian, insect, bird and some reproduction processes. **Human development** Human development to old age.	**Functions of the human body** Human circulatory system; transport of nutrients within the body. **Physical and chemical changes** Identifying physical and chemical changes.