

## Science at Nova Primary Academy

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