Intake Primary Academy Science Curriculum Overview CYCLE B

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
EYFS	**All about me** **The human body:** Facial features, body parts, the senses **Seasons of the year;** Autumn. Deciduous and evergreen trees. Observing leaves using magnifying glasses, leaves changing colour.	**Transport** **Forces:** push, pull, twist Air transport Water transport **Seasons of the year:** Winter. Animal hibernation, why do some animals hibernate? How do other animals survive winter? **Transport in the winter;** snow ploughs, gritting roads, snow tyres. **Changing state of matter;** frost and ice- looking closely at ice, what happens when it warms? Why can we see our breath when it is cold?	**Space** **Our planet Earth:** Land and sea, plants and animals, weather, gravity. The moon, the sun, the planets in our solar system, space travel, astronauts. **Seasons of the year:** Spring. The first signs of spring; snowdrops, cherry blossom, buds and flowers, birds nesting, bees, lighter evenings	**Kings and Queens** Seasons of the Year: Summer. Signs of summer; flowers, warmer days, light evenings, butterflies, bees, birds. Design a garden for the Queen; what could we grow? What would we include? Sketch some ideas and write about the design.	**Growing and changing** Growing and changing; how people change as they grow, how animals change as they grow. Life cycles of a butterfly and/or frog. Identify and draw the following animals and their babies including but not limited to: Sheep and Lamb, Cows and Calf, Horse and foal, Butterfly and Caterpillar, Frog and tadpole, Dog and puppy, Cat and kitten , Plants; how they grow from seeds and bulbs. What plants need to grow. Identify parts of plants including roots, stem and leaves. Identify trees and plants growing locally on the school grounds or in local parks. Draw pictures of local plants.	**Stories from the past** Seasons of the Year: Summer. How we stay safe in the sun; sunscreen, hats, sunglasses. Safety around water. Changing state of matter; Why do our ice lollies melt?
KS1	**The human body*** Animals, including humans, survival and offspring The Skeletal System, The Muscular System and Exercise The Digestive system and Healthy Eating The Circulatory system Germs, diseases and preventing illness	**Electricity** Introduction to Electricity Safety Exploring Circuits Investigating conductive and non-conductive materials	**Astronomy** Introduction to Astronomy Model the Solar System Orbit and Rotation The Moon and its Phases Constellations	**Living things and their environment** Dead or Alive What is a habitat? Rainforest and Desert habitats Meadow habitats Underground habitats	**Plants*** Plants around us Seeds and bulbs Comparative test 1 Comparative Test 2 Food and Farming	**Materials and matter** Materials and their uses George de Mestral and Velcro Matter under the microscope Changing Solid Objects Liquids and their properties
LKS2	**The human body** Cells and Nutrients Teeth and Senses Digestion A Healthy Diet Vitamins and Minerals	**Classification of plants and animals** Introduction to classification Classes of vertebrates: Fish and Amphibians Classes of vertebrates: Reptiles, Birds and Mammals Classes of invertebrates: Insects, Arachnids and Molluscs Classification of plants	**Ecology** Living things and Habitats Natural Cycles Web of Living Things Human Threats to the Environment Ecology in our Local Area	**Sound** What is sound? Speed of sound Qualities of sound – Pitch and Volume Human Voice Ears- how we hear	**States of matter and the water cycle** States of Matter Evaporation Condensation Precipitation The Water Cycle	**Electricity** Electrical Safety Parts of a circuit Switches Thomas Edison and Lewis Latimer Investigating conductive and non-conductive materials
UKS2	**The human body** Human Growth Stages Adolescence and Puberty Slowing Down Growth in Humans and Animals	**Classification and living things** Classifying organisms Cells: Plant and Animal cells Taxonomy Vertebrates Invertebrates	**Electricity** Simple Series Circuits Parallel Circuits Switches Planning an investigation Investigation	**Light** How light travels How we see Shadows and their shapes The Colour of Light Making a periscope	**Reproduction** Asexual reproduction Sexual reproduction in non-flowering plants Sexual reproduction in flowering plants Reproduction in animals Growth stages	**Evolution** Fossils and Evolution Inheritance Adaptation Charles Darwin Alfred Wallace