

Intake Primary Academy Science Curriculum Overview CYCLE A



	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
EYFS	Myself The season of Autumn, leaves changing colour and falling from trees. Animals begin to prepare for colder weather and hibernation e.g. squirrels bury nuts in the ground. Temperatures getting colder as winter approaches.	Animals and their babies All animals have babies, some look like their parents, but some do not. Recognise and use animals' names e.g. cow/calf, chicken/chick. Polar habitats are under threat as climate changes.	Journeys Plan a journey to the local park, or around the school grounds what would we see? What grows in our school, what grows in the park? People journey around the world to see different places and environments; Ernest Shingleton and his journey to the South Pole. Contrasting environments; journeys to cold places, what would we need to take with us? Look at some recent memorable journeys, e.g. Perseverance landing on Mars. (Children will learn more about space in Reception)	Dinosaurs We know about dinosaurs because people have found fossils in the ground. Rocks can sometimes contain fossils that palaeontologists can study.	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.	Heroes and adventurers Ice investigation-(link to South Pole – Shackleton). Ice changes from a solid to a liquid when it melts. Boats in water – explore floating and sinking. How many pennies can my boat hold? Contrasting landscapes; what does a lunar landscape look like? What might we see if we walked on the moon?
KS1	The human body* Introduction to Our Body and Our Senses Eyes and Sight Ears and Hearing Touch, taste and smell Understanding Sensory Impairment	Animals and their needs* Amazing Animals (Introduction to Animals) Grouping animals: Fish, amphibians, reptiles, birds and mammals Grouping animals: carnivores, herbivores and omnivores Animals as pets Describing animals	Taking care of the Earth Taking Care of the Earth Earth's Natural Resources Logging Pollution Recycling	Seasons and weather The four seasons Tools to record the weather Using a graph to show information about the weather Clouds and what they tell us: cirrus, cumulus and stratus Weather forecasting	Plants* What plants need Parts of plants Seeds Deciduous and evergreen plants Plants we eat	Materials and magnets Everyday Materials Properties of Materials Uses of Materials Magnets Investigation
LKS2	The human body The Muscular System The Skeletal System The Nervous System Preparing to Eat The Digestive System	Cycles in nature The Four Seasons (prior learning) Seasonal Cycles in Plants Life Cycle of a Plant Animal Migration Life Cycle of a Frog	Forces and magnets Forces (Gravity) Friction Magnet Magnetic Poles and Fields Investigating the strength of magnets	Plants Botany and Flowering Plants Requirements for life and growth Water transportation in plants Pollination in Flowering Plants Seed Dispersal	Rocks Sorting rocks How Rocks are Formed Permeability Fossils Soil	Light Light and Dark Transparent and opaque surfaces Mirrors and reflection Shadows Finding patterns in changing shadows
UKS2	The human body The Heart: Circulation of the Blood Blood Vessels and Transport Components of Human Blood Blood Pressure and Heart Rate Heart Rate- an Investigation	Materials Properties of materials Which material is best? Solubility- which materials are most soluble/what solubility means Separating mixtures- sieving, filtering, evaporating Reversible changes- dissolving, mixing, change of state	Living things Life cycles of plants and animals in our local area Reproduction in Plants Life cycles of Mammals and Amphibians Life cycles of insects and birds The work of David Attenborough and Jane Goodall	Forces Forces including gravity Air resistance, water resistance and friction Guided investigation: Paper Drop Guided investigation: Paper Drop Pulleys, gears and levers	Astronomy The Big Bang and the expanding universe Gravity Our Solar System The Moon Our Galactic neighbourhood	Meteorology Meteorology and the atmosphere Ozone layer Air movement Cold and warm fronts Thunder and lightning