Abbey Hey Primary Academy
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2021-22 LTP Science

	Nursery	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Autumn 1	**Marvellous Me Bears** • Using senses • Different types of weather/climates • Matching animals to their young • Plants • Animals and their environments		**Biology** Plants *Identifying and naming common plants and describing basic structures*	**Biology** Plant growth *Plants grow from seeds,and require water, lightand a suitable temperature*	**Physics** Light *Relationship between light and how we see; the formation of shadows*	**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 variationsin series and parallel circuits, and how electricity is generated*
Autumn 2	**Special Days** • Using senses Different types of weather/climates Matching animals to their young Plants Animals and their environments		**Biology / Physics** Seasonal changes *Observing changes acrossfour seasons and describing associated weather*	**Biology** Needs of animals *Animals need water, foodand air to survive and to have offspring*	**Chemistry** Rocks *Comparisons of types of rocks and how fossils areformed*	**Biology** Food & digestion *The human digestive system and simple foodchains*	**Biology, Chemistry, Physics** Energy *Introducing the conceptof energy stores and energy transfers, and relating this to prior knowledge*	**Biology** Evolution *Fossils; introduction to the idea that adaptationmay lead to evolution*
Spring 1	**Toys** • Using senses • Different types of weather/climates • Matching animals to their young • Plants • Animals and their environments	**Castles Knights & Dragons** • Key signs of seasons • What a plant needs to survive • Care for the natural world and living things • Life cycles • Changes in materials • Effects of the seasons on the natural world • Helping the environment	**Chemistry** Everyday materials *Distinguishing objectsfrom the material it's made from, and describing simple properties*	**Biology** Living things & theirhabitats *Basic introduction to habitats and micro- habitats, and simple food chains*	**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*

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Spring2	**On the farm** • Using senses • Different types of weather/climates • Matching animals to their young • Plants • Animals and their environments	**Spring in our step** • Key signs of seasons • What a plant needs to survive • Care for the natural world and living things • Life cycles • Changes in materials • Effects of the seasons on the natural world • Helping the environment	**Consolidation andreview**	**Consolidation and review**	**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 toold age*	**Biology** Further classification *Further classification of living organisms based on characteristics*
Summer 1	**Once Upon a Time** • Using senses • Different types of weather/climates • Matching animals to their young • Plants • Animals and their environments	**Where we live** • Key signs of seasons • What a plant needs to survive • Care for the natural world and living things • Life cycles • Changes in materials • Effects of the seasons on the natural world • Helping the environment	**Biology** Animals *Identifying and naming fish, amphibians, reptiles, birds and mammals; carnivores, herbivores and omnivores*	**Chemistry** Uses of everyday materials *Comparisons of an object's material with itsuse; impact of bending, twisting on solid objects*	**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 humanbody *Human circulatory system; transport of nutrients within the body*
Summer 2	**All creatures great and small** • Using senses • Different types of weather/climates • Matching animals to their young • Plants • Animals and their environments	**Science detectives** • Key signs of seasons • What a plant needs to survive • Care for the natural world and living things • Life cycles • Changes in materials • Effects of the seasons on the natural world • Helping the environment	**Biology** Humans *Human body parts andsenses*	**Chemistry** Solids, liquids and gases *Understanding how the same substances can exist as solids, liquids andgases*	**Physics** Friction & magnetism *Contact and non-contact forces, including friction and magnetism*	**Chemistry** Properties of materials *Considering physical andchemical properties*	**Physics** Earth and space *Movements of planets and the Moon, and relationship to day andnight*	**Chemistry** Physical and chemical changes *Identifying physical and chemical changes*