





	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Nur	Me and my community This project supports children with settling into the new rules and routines of school and encourages them to make new friends and feel confident in their class. It teaches children about being helpful, kind and thoughtful at home and at school. This project also teaches children how they are unique and special, the importance of friendship and how people	Sparkle and shine This project teaches children about the celebrations that take place during the autumn and winter seasons, and focus on the significance and symbolism of light at this time of year. Understanding the World: Use all their senses in hands-on exploration of natural materials. Explore collections of materials with similar and/or different properties. Talk about what they see, using a wide vocabulary.	Animal safari This project teaches children about the animals that live around the world, how to look after animals and the importance of caring for our local and global environments. Understanding the World: Talk about what they see, using a wide vocabulary. Curriculum Threads: IDENTITY NATURAL WORLD	Ready, steady, grow This project teaches children about food and farming and explores themes, including where food comes from, what plants and animals need to grow and survive and what constitutes a healthy lifestyle. Understanding the World: Talk about what they see, using a wide vocabulary. Plant seeds and care for growing plants. Understand the key features of the life cycle of a plant and an animal. Begin to understand the	Marvellous machines This interest-led project teaches children about the technology that is part of their daily lives and how machines help us. The project gives children the opportunity to build and create marvellous machines. Understanding the World: Talk about what they see, using a wide vocabulary. Show interest in different occupations. Explore how things work Explore and talk about different forces they can	Summer 2 Sunshine and sunflowers This seasonal project provides opportunities for outdoor learning and teaches children how to care for the plants and animals in their local environment and how to stay safe in the sun. Understanding the World: Plant seeds and care for growing plants. Understand the key features of the life cycle of a plant and an animal. Use all their senses in hands-on exploration of natural materials. Explore collections of
	Understanding the World: Show interest in different occupations. Talk about what they see, using a wide vocabulary Curriculum Threads: IDENTITY	Curriculum Threads: IDENTITY CIVILISATION		need to respect and care for the natural environment and all living things. Explore and talk about different forces they can feel. Curriculum Threads: IDENTITY	Curriculum Threads: IDENTITY INNOVATION Creep, crawl, wriggle This mini project teaches children about invertebrates that live in their gardens and local environment.	materials with similar and/or different properties Curriculum Threads: IDENTITY NATURAL WORLD













				NATURAL WORLD		
				CIVILISATION	Understanding the World:	
				CIVILISATION	Explore the natural world	
					around them, making	
					observations and drawing	
					pictures of animals and	
					plants.	
					Develop scientific	
					knowledge through play	
					activities, sharing stories and non-fiction books and	
					discussion. Curriculum Threads:	
					IDENTITY NATURAL WORLD	
					NATURAL WORLD	
	Me and my community	Sparkle and shine	Ready, steady, grow	Animal safari	Marvellous machines	Sunshine and sunflowers
	This project supports	This project teaches	This project teaches	This project teaches	This interest-led project	This seasonal project
	children with settling into	children about the	children about food and	children about the animals	teaches children about the	provides opportunities for
	the new rules and routines	celebrations that take	farming and explores	that live around the world,	technology that is part of	outdoor learning and
	of school and encourages	place during the autumn	themes, including where	how to look after animals	their daily lives and how	teaches children how to
	them to make new friends	and winter seasons, and	food comes from, what	and the importance of	machines help us. The	care for the plants and
	and feel confident in their	focus on the significance	plants and animals need to	caring for our local and	project gives children the	animals in their local
	class. It teaches children	and symbolism of light at	grow and survive and what	global environments.	opportunity to build and	environment and how to
Rec	about being helpful, kind	this time of year.	constitutes a healthy		create marvellous	stay safe in the sun.
IXCC	and thoughtful at home		lifestyle.	Understanding the World:	machines.	
	and at school. This project	Understanding the World:		Understand the effect of		Understanding the World:
	also teaches children how	Understand the effect of	Understanding the World:	changing seasons on the	Understanding the World:	Understand the effect of
	they are unique and	changing seasons on the	Explore the natural world	natural world around	Describe what they see,	changing seasons on the
	special, the importance of	natural world around them	around them.	them.	hear and feel whilst	natural world around
	friendship and how people		Describe what they see,		outside	them.
	in their family, school and	Curriculum Threads:	hear and feel whilst	Curriculum Threads:	, .	Recognise some
	local community are	IDENTITY	outside.	IDENTITY	Curriculum Threads:	environments that are
		NATURAL WORLD		NATURAL WORLD	IDENTITY	













important and can help them.

Understanding the World: Explore the natural world around them.
Understand the effect of changing seasons on the natural world around them.

Curriculum Threads: IDENTITY NATURAL WORLD

Long ago

This project teaches children about how they have grown and changed since they were babies and how life in the past was different from today.

Understanding the World: Understand the effect of changing seasons on the natural world around them.

Curriculum Threads: IDENTITY NATURAL WORLD Understand the effect of changing seasons on the natural world around them.

Curriculum Threads: IDENTITY NATURAL WORLD

NATURAL WORLD INNOVATION

Creep, crawl, wriggle
This mini project teaches
children about
invertebrates that live in
their gardens and local
environment.

Understanding the World:
Understand the effect of changing seasons on the natural world around them.

Recognise some
environments that are
different from the one in
which they live.
Describe what they see,
hear and feel whilst
outside.
Explore the natural world
around them.

Curriculum Threads:
IDENTITY
NATURAL WORLD
CIVILISATION
EQUITY

different from the one in which they live.

Describe what they see, hear and feel whilst outside.

Explore the natural world around them.

Curriculum Threads: IDENTITY NATURAL WORLD

Moving on

This project celebrates the children's successes throughout their Reception year. It explores how they have grown and changed and supports them with the changes to come as they move into Year 1.

Understanding the World:
Discuss simple changes as
they have grown from
being a baby.

Curriculum Threads: IDENTITY NATURAL WORLD













	Human senses	Seasonal changes	Materials	Plants	Animals
	This project teaches	This project teaches	This project teaches children that objects are made from	This project teaches	This project teaches
	children that humans are a	children about the	materials. They identify a range of everyday materials	children about wild and	children about animals,
	type of animal known as a	seasons, seasonal changes	and their sources. Children investigate the properties of	garden plants by exploring	including fish, amphibians,
	mammal. They name and	and typical seasonal	materials and begin to recognise that a material's	the local environment.	reptiles, birds, mammals
	count body parts and	weather and events. They	properties define its use.	They identify and describe	and invertebrates. They
	identify similarities and	learn about measuring the		the basic parts of plants	identify and describe their
	differences. They learn	weather and the role of a	Curriculum Threads:	and observe how they	common structures, diets,
Yı	about the senses, the body	meteorologist. Children	INNOVATION	change over time.	and how animals should be
1 1	parts associated with each	begin to learn about the	NATURAL WORLD		cared for.
	sense and their role in	science of day and night		Curriculum Threads:	
	keeping us safe.	and recognise that the		IDENTITY	Curriculum Threads:
		seasons have varying day		NATURAL WORLD	IDENTITY
	Curriculum Threads:	lengths in the UK.			NATURAL WORLD
	IDENTITY				
	INNOVATION	Curriculum Threads:			
		NATURAL WORLD			
	Human survival	Habitats	Animal survival	Plant survival	Uses of materials
	This project teaches	This project teaches	This project teaches children about growth in animals by	This project teaches	This project teaches
	This project teaches children about the basic	This project teaches children about habitats	This project teaches children about growth in animals by exploring the life cycles of some familiar animals. They	This project teaches children about the growth	This project teaches children about the uses of
	This project teaches children about the basic needs of humans for	This project teaches children about habitats and what a habitat needs	This project teaches children about growth in animals by exploring the life cycles of some familiar animals. They build on learning about the survival of humans by	This project teaches children about the growth of plants from seeds and	This project teaches children about the uses of everyday materials and
	This project teaches children about the basic needs of humans for survival, including the	This project teaches children about habitats and what a habitat needs to provide. They explore	This project teaches children about growth in animals by exploring the life cycles of some familiar animals. They build on learning about the survival of humans by identifying the basic needs of animals for survival,	This project teaches children about the growth of plants from seeds and bulbs. They observe the	This project teaches children about the uses of everyday materials and how materials' properties
	This project teaches children about the basic needs of humans for survival, including the importance of exercise,	This project teaches children about habitats and what a habitat needs to provide. They explore local habitats to identify	This project teaches children about growth in animals by exploring the life cycles of some familiar animals. They build on learning about the survival of humans by	This project teaches children about the growth of plants from seeds and bulbs. They observe the growth of plants first	This project teaches children about the uses of everyday materials and how materials' properties make them suitable or
	This project teaches children about the basic needs of humans for survival, including the importance of exercise, nutrition and good	This project teaches children about habitats and what a habitat needs to provide. They explore local habitats to identify and name living things and	This project teaches children about growth in animals by exploring the life cycles of some familiar animals. They build on learning about the survival of humans by identifying the basic needs of animals for survival, including food, water, air and shelter.	This project teaches children about the growth of plants from seeds and bulbs. They observe the growth of plants first hand, recording changes	This project teaches children about the uses of everyday materials and how materials' properties make them suitable or unsuitable for specific
Y2	This project teaches children about the basic needs of humans for survival, including the importance of exercise, nutrition and good hygiene. They learn how	This project teaches children about habitats and what a habitat needs to provide. They explore local habitats to identify and name living things and begin to understand how	This project teaches children about growth in animals by exploring the life cycles of some familiar animals. They build on learning about the survival of humans by identifying the basic needs of animals for survival, including food, water, air and shelter. Curriculum Threads:	This project teaches children about the growth of plants from seeds and bulbs. They observe the growth of plants first hand, recording changes over time and identifying	This project teaches children about the uses of everyday materials and how materials' properties make them suitable or unsuitable for specific purposes. They begin to
Y2	This project teaches children about the basic needs of humans for survival, including the importance of exercise, nutrition and good hygiene. They learn how human offspring grow and	This project teaches children about habitats and what a habitat needs to provide. They explore local habitats to identify and name living things and begin to understand how they depend on one	This project teaches children about growth in animals by exploring the life cycles of some familiar animals. They build on learning about the survival of humans by identifying the basic needs of animals for survival, including food, water, air and shelter. Curriculum Threads: INNOVATION	This project teaches children about the growth of plants from seeds and bulbs. They observe the growth of plants first hand, recording changes over time and identifying what plants need to grow	This project teaches children about the uses of everyday materials and how materials' properties make them suitable or unsuitable for specific purposes. They begin to explore how materials can
Y2	This project teaches children about the basic needs of humans for survival, including the importance of exercise, nutrition and good hygiene. They learn how human offspring grow and change over time into	This project teaches children about habitats and what a habitat needs to provide. They explore local habitats to identify and name living things and begin to understand how they depend on one another for food and	This project teaches children about growth in animals by exploring the life cycles of some familiar animals. They build on learning about the survival of humans by identifying the basic needs of animals for survival, including food, water, air and shelter. Curriculum Threads:	This project teaches children about the growth of plants from seeds and bulbs. They observe the growth of plants first hand, recording changes over time and identifying	This project teaches children about the uses of everyday materials and how materials' properties make them suitable or unsuitable for specific purposes. They begin to
Y2	This project teaches children about the basic needs of humans for survival, including the importance of exercise, nutrition and good hygiene. They learn how human offspring grow and	This project teaches children about habitats and what a habitat needs to provide. They explore local habitats to identify and name living things and begin to understand how they depend on one	This project teaches children about growth in animals by exploring the life cycles of some familiar animals. They build on learning about the survival of humans by identifying the basic needs of animals for survival, including food, water, air and shelter. Curriculum Threads: INNOVATION	This project teaches children about the growth of plants from seeds and bulbs. They observe the growth of plants first hand, recording changes over time and identifying what plants need to grow and stay healthy.	This project teaches children about the uses of everyday materials and how materials' properties make them suitable or unsuitable for specific purposes. They begin to explore how materials can be changed.
Y2	This project teaches children about the basic needs of humans for survival, including the importance of exercise, nutrition and good hygiene. They learn how human offspring grow and change over time into adulthood.	This project teaches children about habitats and what a habitat needs to provide. They explore local habitats to identify and name living things and begin to understand how they depend on one another for food and shelter.	This project teaches children about growth in animals by exploring the life cycles of some familiar animals. They build on learning about the survival of humans by identifying the basic needs of animals for survival, including food, water, air and shelter. Curriculum Threads: INNOVATION	This project teaches children about the growth of plants from seeds and bulbs. They observe the growth of plants first hand, recording changes over time and identifying what plants need to grow and stay healthy. Curriculum Threads:	This project teaches children about the uses of everyday materials and how materials' properties make them suitable or unsuitable for specific purposes. They begin to explore how materials can be changed. Curriculum Threads:
Y2	This project teaches children about the basic needs of humans for survival, including the importance of exercise, nutrition and good hygiene. They learn how human offspring grow and change over time into adulthood. Curriculum Threads:	This project teaches children about habitats and what a habitat needs to provide. They explore local habitats to identify and name living things and begin to understand how they depend on one another for food and shelter. Curriculum Threads:	This project teaches children about growth in animals by exploring the life cycles of some familiar animals. They build on learning about the survival of humans by identifying the basic needs of animals for survival, including food, water, air and shelter. Curriculum Threads: INNOVATION	This project teaches children about the growth of plants from seeds and bulbs. They observe the growth of plants first hand, recording changes over time and identifying what plants need to grow and stay healthy. Curriculum Threads: INNOVATION	This project teaches children about the uses of everyday materials and how materials' properties make them suitable or unsuitable for specific purposes. They begin to explore how materials can be changed. Curriculum Threads: INNOVATION
Y2	This project teaches children about the basic needs of humans for survival, including the importance of exercise, nutrition and good hygiene. They learn how human offspring grow and change over time into adulthood. Curriculum Threads: IDENTITY	This project teaches children about habitats and what a habitat needs to provide. They explore local habitats to identify and name living things and begin to understand how they depend on one another for food and shelter. Curriculum Threads: INNOVATION	This project teaches children about growth in animals by exploring the life cycles of some familiar animals. They build on learning about the survival of humans by identifying the basic needs of animals for survival, including food, water, air and shelter. Curriculum Threads: INNOVATION	This project teaches children about the growth of plants from seeds and bulbs. They observe the growth of plants first hand, recording changes over time and identifying what plants need to grow and stay healthy. Curriculum Threads:	This project teaches children about the uses of everyday materials and how materials' properties make them suitable or unsuitable for specific purposes. They begin to explore how materials can be changed. Curriculum Threads:
Y2	This project teaches children about the basic needs of humans for survival, including the importance of exercise, nutrition and good hygiene. They learn how human offspring grow and change over time into adulthood. Curriculum Threads:	This project teaches children about habitats and what a habitat needs to provide. They explore local habitats to identify and name living things and begin to understand how they depend on one another for food and shelter. Curriculum Threads:	This project teaches children about growth in animals by exploring the life cycles of some familiar animals. They build on learning about the survival of humans by identifying the basic needs of animals for survival, including food, water, air and shelter. Curriculum Threads: INNOVATION	This project teaches children about the growth of plants from seeds and bulbs. They observe the growth of plants first hand, recording changes over time and identifying what plants need to grow and stay healthy. Curriculum Threads: INNOVATION	This project teaches children about the uses of everyday materials and how materials' properties make them suitable or unsuitable for specific purposes. They begin to explore how materials can be changed. Curriculum Threads: INNOVATION













Science High Level Plan

Human and animal nutrition

This project teaches children about the importance of nutrition for humans and other animals (unit split in two across Autumn)

Curriculum Threads: IDENTITY NATURAL WORLD

Human and animal skeleton

This project teaches children about the role of a skeleton and muscles and identify animals with different types of skeleton. (unit split in two across Autumn)

Curriculum Threads:
IDENTITY
INNOVATION
NATURAL WORLD

Plant nutrition and reproduction

This project teaches children about the requirements of plants for growth and survival. They describe the parts of flowering plants and relate structure to function, including the roots and stem for transporting water, leaves for making food and the flower for reproduction.

Curriculum Threads: IDENTITY NATURAL WORLD

Forces and magnets

This project teaches children about contact and non-contact forces, including friction and magnetism. They investigate frictional and magnetic forces, and identify parts of a magnet and magnetic materials.

Curriculum Threads:
IDENTITY
INNOVATION
NATURAL WORLD

Light and shadow

This project teaches children about light and dark. They investigate the phenomena of reflections and shadows, looking for patterns in collected data. The risks associated with the Sun are also explored.

Curriculum Threads:

IDENTITY
INNOVATION
NATURAL WORLD













Science High Level Plan

Food and the digestive
system

This project teaches children about the human digestive system. They explore the main parts, starting with the mouth and teeth, identifying teeth types and their functions. They link this learning to animals' diets and construct food chains to show the flow of energy.

Curriculum Threads: IDENTITY INNOVATION

NATURAL WORLD

Grouping and classifying

This project teaches children about grouping living things, known as classification. They study the animal and plant kingdoms and use and create classification keys to identify living things.

Curriculum Threads:
INNOVATION
NATURAL WORLD

Electrical circuits and conductors

This project teaches children about electrical appliances and safety. They construct simple series circuits and name their parts and functions, including switches, wires and cells. They investigate electrical conductors and insulators and identify common features of conductors. It also teaches children about programmable devices.

They combine their learning to design and make a nightlight.

Curriculum Threads: IDENTITY INNOVATION

States of matter

This project teaches children about solids, liquids and gases and their characteristic properties.
They observe how materials change state as they are heated and cooled, and learn key terminology associated with these processes.

Curriculum Threads: NATURAL WORLD

Sound

This project teaches children about sound, how sound is made and how sound travels as vibrations through a medium to the ear. They learn about pitch and volume and find out how both can be changed.

Curriculum Threads:
INNOVATION
NATURAL WORLD
CIVILISATION













Science High Level Plan

Human reproduction and ageing

This project teaches children about animal life cycles, including the human life cycle. They explore human growth and development to old age, including the changes experienced during puberty and human reproduction.

Curriculum Threads:

IDENTITY
INNOVATION
NATURAL WORLD

Properties and changes of materials

This project teaches children about the wider properties of materials and their uses. They learn about mixtures and how they can be separated using sieving, filtration and evaporation. They study reversible and irreversible changes, and use common indicators to identify irreversible changes.

Curriculum Threads:
INNOVATION
NATURAL WORLD

Forces

This project teaches children about the forces of gravity, air resistance, water resistance and friction, with children exploring their effects.

They learn about mechanisms, their uses and how they allow a smaller effort to have a greater effect.

Curriculum Threads: IDENTITY INNOVATION NATURAL WORLD

Earth and space

This project teaches children about our Solar System and its spherical celestial bodies. They describe the movements of the Earth and the other planets relative to the Sun, the Moon relative to Earth, and the Earth's rotation to explain day and night.

Curriculum Threads:
INNOVATION
NATURAL WORLD













Science High Level Plan

Circulatory system
This project teaches
children about the
transport role of the
human circulatory system,
its main parts and primary
functions. They learn
about healthy lifestyle
choices and the effects of

Curriculum Threads:
IDENTITY
INNOVATION
NATURAL WORLD

harmful substances on the

body.

Evolution and inheritanceThis project teaches

children how living things on Earth have changed over time and how fossils provide evidence for this.

They learn how characteristics are passed from parents to their offspring and how variation in offspring can affect their survival, with changes (adaptations) possibly leading to the

Curriculum Threads:
IDENTITY
INNOVATION
NATURAL WORLD

evolution of a species.

Electrical circuits and components

This project teaches children about electrical circuits, their components and how they function. They recognise how the voltage of cells affects the output of a circuit and record circuits using standard symbols. It also teaches children about programmable devices, sensors and monitoring. They combine their learning to design and make programmable home devices.

Curriculum Threads: IDENTITY INNOVATION

Light theory

This project teaches children about the way that light behaves, travelling in straight lines from a source or reflector, into the eye. They explore how we see light and colours, and phenomena associated with light, including shadows, reflections and refraction.

> Curriculum Threads: IDENTITY NATURAL WORLD





