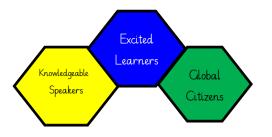


# **Curriculum Skills Progression** and Assessment Handbook



"Art is a place for children to learn to trust their ideas themselves and to explore what is possible. Maryann F Kohl — educator and publisher

# Geography

"The study of geography is about more than just memorising places on a map. It's about understanding the complexity of our world. President Barack Obama

The important thing is to never stop questioning."

Albert Einstein

Computing "The computer is not a device anymore. It is an extension of your mind and your gateway to other people. Mark Shuttleworth-Enterpreneur

# History

"The more you know about the past. the better prepared you are for the future"

Theodore Roosevelt

"There is music in every child. The teacher's job is to find it and nurture

Francis Clark- pianist

At Burnt Tree Primary School 'every child matters'; therefore, we strive to ensure our pupils are happy and healthy both physically and mentally. We endeavour to exploit every opportunity within the curriculum to develop their physical and mental strength to be successful. All children will develop the emotional intelligence to be caring and kind citizens who are aware of their self-worth and identify their place in society. They will become life-long learners who are independent, responsible and respectful.

"If you can't fly, then run, if you can't run, then walk, if you can't walk, then crawl, but whatever you do, you have to keep moving forward." Martin Luther King

Languages

'The limits of my language are the limits of my world'.

Lutwig Wittgenstein. Australian-British philosopher of language.

"The beauty of the world lies in the diversity of its people." Unknown

Design and Technology "It's not just about ideas, it's about making ideas happen"

Scott Belsky- entrepreneur

# Science Nursery Topics

- Animals, excluding humans
- Humans
- Living things and their habitats
- Plants
- Seasonal changes
- Materials, including changing materials
- Electricity
- Light
- Forces
- Sound

# Science Reception Topics

- Animals, excluding humans
- Humans
- Living things and their habitats
- Plants
- Seasonal changes
- Materials, including changing materials
- Light
- Forces
- Sound
- Earth and space

#### Science YI

#### Topics

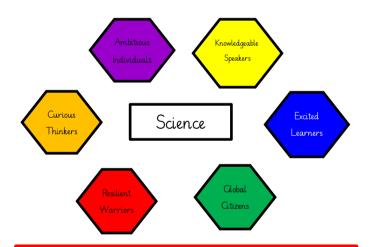
- •Plants
- Animals including human
- •Everyday materials
- •Seasonal changes

### Science Y6

#### Topics

Living Things and their habitats

- Animals including humans
- •Evolution and inheritance
- •Light
- •Electricity



# Science Y2

## Topics

- •Living things and their habitats
- •Plants
- Animals, including humans
- •Uses of everyday materials

#### Science Y5

#### Topics

- •Living things and their habitats
- •Animals including humans
- •Properties and changes to materials
- •Earth and Space
- •Forces

### Science Y4

# Topics

- •Plants
- •Animals, including humans
- •Rocks
- •Light
- •Forces and magnets

# Science Y3

#### Topics

- •Plants
- •Animals, including humans
- Rocks
- •Light
- •Forces and magnets

2

			Science			
To work scientifically						
N R	УІ	У2	УЗ	УĻ	У5	У6
Ask simple questions	Ask simple questions		Ask relevant questions.		Plan enquiries, including and controlling variable.	
Explore how things work  Use their senses in hands-on exploration, describing what they see, hear and feel.	Observe closely using simple Perform simple tests  Identify and classify.	Perform simple tests  Identify and classify.		Making systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of equipment, including thermometers and data loggers		s of increasing complexity s and labels, classification ne graphs, and models
Explore the world around them.  Talk about what they see, using a wide vocabulary	Use observations and ideas to questions.	s to suggest answers	Set up simple, practical comparative and fair t	· ·	Use test results to make up further comparative	,
Explore collections of materials.	Gather and record data to help in answering questions.		Gathering, recording, classifying and presenting data in a variety of ways to help in answering questions		Take measurements, using a range of scientific equipment, with increasing accuracy and precision.	
Talk about changes they see.  Observe closely using simple equipment  Perform simple tests  Use observations and ideas to suggest answers to questions.			Record findings using solanguage, drawings, late and tables.  Report on findings from oral and written expland presentations of results and the simple, scient and Use results to draw sing suggest improvements, related to simple, scient suggest improvements, results to draw singuagest improvements.	n enquiries, including nations, displays or and conclusions.  milarities or changes tific ideas and processes.	Present findings in written form, displays and other presentations.  Use simple models to describe scientific ideas, identifying scientific evidence that has been used to support or refute ideas or arguments.  Report findings from enquiries, including oral and written explanations of results, explanations involving causal relationships, and conclusions.	
			predictions for setting u  Use straightforward, so  answer questions or to s	up further tests. cientific evidence to		

				Gather, record, classify variety of ways to help in	•		
Plants N	R	УІ	У2	У3	УI <sub>+</sub>	У5	У6
Grow plants	Grow plants	Identify and name a variety of common plants, including garden plants, wild plants and trees and those classified as deciduous and evergreen.  Identify and describe the basic structure of a variety of common flowering plants, including roots, stem/trunk, leaves and flowers.	Observe and describe how seeds and bulbs grow into mature plants  Find out and describe how plants need water, light and a suitable temperature to grow and stay healthy.	identify and describe the functions of different parts of flowering plants: roots, stem, leaves and flowers.  Explore the requirements of plants for life and growth (air, light, water, nutrients from soil, and room to grow) and how they vary from plant to plant.  Investigate the way in which water is transported within plants.  Explore the role of flowers in the life cycle of flowering plants, including pollination, seed formation and seed dispersal.	N/A	Relate knowledge of plants to studies of evolution and inheritance.	Relate knowledge of plants to studies of all living things.
Animals including huma	R R	УІ	У2	У3	У <b>!</b> _	У5	У6
Learn about the life cycles of animals	Name and describe animals that live in different habitats.	Identify and name a variety of common animals that are birds, fish, amphibians,	Notice that animals, including humans, have offspring which grow into adults.	Identify that animals, including humans, need the right types and amounts of nutrition and, that	Construct and interpret a variety of food chains, identifying producers, predators and prey.	Describe the changes as humans develop to old age.	Identify and name the main parts of the human circulatory system, and describe the functions of

Compare adult animals to their babies  Observe how baby animals change over time	Describe different habitats	reptiles, mammals and invertebrates.  Identify and name a variety of common animals that are carnivores, herbivores and omnivores  Describe and compare the structure of a variety of common animals (birds, fish, amphibians, reptiles, mammals and invertebrates, including pets).  Identify name, draw and label the basic parts of the human body and say which part of the body is associated with each sense.	Find out about and describe the basic needs of animals, including humans, for survival (water, food and air).  Describe the importance for humans of exercise, eating the right amounts of different types of food and hygiene.	they cannot make their own food and they get nutrition from what they eat.  Identify that humans and some animals have skeletons and muscles for support, protection and movement.	Describe the simple functions of the basic parts of the digestive system in humans.  Identify the different types of teeth in humans and their simple functions.		the heart, blood vessels and blood. Recognise the impact of diet, exercise, drugs and lifestyle on the way their bodies function.  Describe the ways in which nutrients and water are transported within animals, including humans
N	R	УІ	У2	УЗ	У4	У5	У6
Explore the surrounding natural environment  Explore natural	Explore the plants in the surrounding natural environment  Explore the animals	N/A	Explore and compare the differences between things that are living, that are dead and that have never been	N/A	Recognise that living things can be grouped in a variety of ways.  Explore and use	Describe the differences in the life cycles of a mammal, an amphibian, an insect and a bird.	Describe how living things are classified into broad groups according to common, observable characteristics and
ob jects from the surrounding environment	in the surrounding natural environment		alive.  Identify that most  living things live in		classification keys to help group, identify and name a variety of living things in their		based on similarities and differences, including micro-

Evolution and inheritan	Explore plants and animals in a contrasting natural environment		habitats to which they are suited and describe how different habitats provide for the basic needs of different kinds of animals and plants and how they depend on each other.  Identify and name a variety of plants and animals in their habitats, including microhabitats.  Describe how animals obtain their food from plants and other animals, using the idea of a simple food chain, and identify and name different sources of food.		local and wider environment.  Recognise that environments can change and that this can sometimes pose dangers to living things.	Describe the life process of reproduction in some plants and animals.	organisms, plants and animals.  Give reasons for classifying plants and animals based on specific characteristics.
N	R	УІ	У2	УЗ	Уl <sub>+</sub>	Y5	Уб
Learn about the life cycles of humans  Learn about how to take care of	Describe people who are familiar to them  Learn about how to take care of	N/A	Identify how humans resemble their parents in many features.	Identify how plants and animals, including humans, resemble their parents in many features.	Recognise that living things have changed over time and that fossils provide information about	N/A	Recognise that living things have changed over time and that fossils provide information about
themselves	themselves				living things that inhabited the Earth		living things that inhabited the Earth
Learn about their					millions of years ago.		millions of years ago.

Materials					Identify how animals and plants are suited to and adapt to their environment in different ways.		Recognise that living things produce offspring of the same kind, but normally offspring vary and are not identical to their parents.  Identify how animals and plants are adapted to suit their environment in different ways and that adaptation may lead to evolution.
N	R	УІ	У2	У3	УI <sub>+</sub>	У5	Уб
Explore a range of materials  Shape and join materials  Combine and mix ingredients  Change materials by heating and cooling, including cookin	Explore a range of materials, including natural materials  Make objects from different materials, including natural materials  Observe, measure and record how materials change when heated and cooled  Compare how materials change over time and in different conditions	Distinguish between an object and the material from which it is made.  Identify and name a variety of everyday materials, including wood, plastic, glass, metal, water and rock.  Describe the simple physical properties of a variety of everyday materials.  Compare and group together a variety of everyday materials on the basis of their	Find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching.  Identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick/rock, and paper/cardboard for particular uses.		States of Matter Compare and group materials together, according to whether they are solids, liquids or gases.  Observe that some materials change state when they are heated or cooled, and measure the temperature at which this happens in degrees Celsius (°C), building on their teaching in mathematics.  Identify the part played by evaporation and condensation in the	Compare and group together everyday materials on the basis of their properties, including their hardness, solubility, transparency, conductivity (electrical and thermal), and response to magnets.  Know that some materials will dissolve in liquid to form a solution, and describe how to recover a substance from a solution.  Use knowledge of solids, liquids and gases to	N/A

properties  properties  associate the rails of experiation with temperature.  associate the rails of experiation with temperature.  Cive reasons, based on evidence from comparative and fair tests, for the particular uses of everyday materials, including metals, wood and plants:  Chemorobrails that dissolving mining and changes of state are reversible stranges.  Explain that some changes result in the formation of new materials, and that this kind of change is not assailly reversible, including changes associated with burning and the action of and montrolists that the second of each of and and no hourboasts of seda.  Nomental forces and magnetic.  N R  Y Y Y 3  Yi Y 5  YO  Feel forces  Explore how things  work  White and storme.  Abstes that some forces  having two poles.  N/A  Compare how things  work  White and describe  N/A  Compare how things  work  Abstes that some forces  having two poles.  Predict whether two			1	1			T	
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experating.  Give reasons, based on exidence from comparative and fair lessls, for the particular uses of everyday materials, including metals, wood and plastic.  Demonstrate that dissolving mining and plastic.  Demonstrate that dissolving mining and changes of state are reversible changes.  Epplain that some changes result in the formation of new materials, and that this kind of change is not usually reversible, including changes associated with burning and the action of acid on hisorobroate of soda.  No R Y Y2 Y3 Y4 Y5 Y6  Feel forces Coptore how to change how things work using single comparisons such as faster and slower.  No R N N N N N N N N N N N N N N N N N N						evaporation with		
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Explore how things work simple comparisons such as faster and slower.  Notice that some forces need contact  Move on  Auring two poles.  Describe magnets as having two poles.  Notice that some forces need contact  Predict whether two	Feel forces	Explore how to	Notice and describe	N/A	Compare how things	N/A	Magnets	N/A
Explore how things work simple comparisons such as faster and slower. different surfaces.  Notice that some forces need contact Predict whether two		,	how things move, using		,			
work as faster and slower. Notice that some forces need contact Predict whether two	Explore how things	5	_		different surfaces.			
need contact Predict whether two							,	
	VVOI N						Predict whether two	
					between two objects, but		magnets will attract or	

Explore how	Explore how the wind	Compare how different	magnetic forces can act	repel each
ob jects/materials are	can move objects	things move.	at a distance.	other, depending on
affected by forces				which poles are facing.
	Explore how objects		Observe how magnets	
	move in water		attract or repel	Forces
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		each other and attract	Explain that
			some materials and	unsupported objects fall
			not others.	towards the Earth
				because of the force of
			Compare and group	gravity acting between
			together a variety	the Earth and the
			of everyday materials	falling ob ject.
			on the basis of	
			whether they are	Identify the effect of
			attracted to a magnet,	drag forces, such as
			and identify some	air resistance,
			magnetic materials.	water resistance and
				friction that act
			Describe magnets as	between moving
			having two poles.	surfaces.
			Predict whether two	Describe, in terms of
			magnets will attract	drag forces, why
			or repel each other,	moving objects that are
			depending on which	not driven tend to slow
			poles are facing.	down.
				Understand that force
				and motion can be
				transferred
				through mechanical
				devices such as gears,
				pulleys, levers and
				springs.
				735.
				Understand that some
				mechanisms including
				levers, pulleys

1.1.						and gears, allow a smaller force to have a greater effect.	
Light	D	VI	V2	У3	<b>∑</b> I <sub>+</sub>	У5	У6
Explore light sources  Shine light on or through different materials	R Explore shadows Explore rainbows	YI NVA	Observe and name a variety of sources of light, including electric lights, flames and the Sun, explaining that we see things because light travels from them to our eyes.	Recognise that they need light in order to see things and that dark is the absence of light.  Notice that light is reflected from surfaces.  Recognise that light from the sun can be dangerous and that there are ways to protect their eyes.  Recognise that shadows are formed when the light from a light source is blocked by a solid ob ject.  Find patterns in the way that the size of shadows change.	N/A	N/A	Understand that light appears to travel in straight lines.  Use the idea that light travels in straight lines to explain that objects are seen because they give out or reflect light into the eyes.  Use the idea that light travels in straight lines to explain why shadows have the same shape as the objects that cast them, and to predict the size of shadows when the position of the light source changes.  Explain that we see things because light travels from light sources to objects and then to our eyes.
Sound and hearing N	R	УІ	У2	У3	УI <sub>+</sub>	У5	Уб

Listen to sounds  Make sounds	Listen to sounds outside and identify the source  Make sounds	Observe and name a variety of sources of sound, noticing that we hear with our ears	N/A	N/A	Identify how sounds are made, associating some of them with something vibrating.  Recognise that vibrations from sounds travel through a medium to the ear.  Find patterns between	N/A	Find patterns between the pitch of a sound and features of the object that produced it.  Find patterns between the volume of a sound and the strength of the vibrations that produced it.
					the pitch of a sound and features of the object that produced it.  Find patterns between the volume of a sound and the strength of the vibrations that produced it.  Recognise that sounds get fainter as the distance from the		Recognise that sounds get fainter as the distance from the sound source increases
FI + - 1					sound source increases.		
Electrical circuits N	R	УІ	У2	УЗ	У <sub>4</sub> -	У5	У6
Identify electrical devices  Use battery-powered devices	N/A	N/A	Identify common appliances that run on electricity.  Construct a simple series electrical circuit.	N/A	Identify common appliances that run on electricity.  Construct a simple series electrical circuit, identifying and naming its basic parts, including cells, wires,	N/A	Associate the brightness of a lamp or the volume of a buzzer with the number and voltage of cells used in the circuit.  Compare and give reasons for variations in how components function,

					bulbs, switches and buzzers.  Identify whether or not a lamp will light in a simple series circuit, based on whether or not the lamp is part of a complete loop with a battery.  Recognise that a switch opens and closes a circuit and associate this with whether or not a lamp lights in a simple series circuit.  Recognise some common conductors and insulators, and associate metals with being good conductors.		including the brightness of bulbs, the loudness of buzzers and the on/off position of switches.  Use recognised symbols when representing a simple circuit in a diagram.
Seasonal Changes	1	1	1				1
N	R	УІ	У2	УЗ	УL <sub>+</sub>	У5	У6
Play and explore outside in all seasons and in different weather  Observe living things throughout the year	Play and explore outside in all seasons and in different weather  Observe living things throughout the year	Observe the apparent movement of the Sun during the day.  Observe changes across the four seasons.  Observe and describe weather associated with the seasons and how day length varies.	N/A		N/A		N/A

Earth and space							
N	R	УІ	У2	УЗ	У4	У5	У6
N/A	Learn about the			Describe the movement		Describe the movement	
	Earth, Sun, Moon,			of the Earth relative		of the Earth, and	
	planets and stars			to the Sun in the solar		other planets, relative	
				system.		to the Sun in the solar	
	Learn about space					system.	
	travel			Describe the movement			
				of the Moon relative		Describe the movement	
				to the Earth.		of the Moon relative to	
						the Earth.	
						Describe the Sun,	
						Earth and Moon as	
						approximately	
						spherical bodies.	
						Use the idea of the	
						Earth's rotation to	
						explain day and	
						night and the apparent	
						movement of the sun	
						across the sky.	
Rocks							
N	R	УІ	У2	У3	Уц	Y5	У6
N/A	N/A			Rocks and Soils			
				Compare and group			
				together different kinds			
				of rocks on the basis of			
				their simple,			
				physical properties.			
				Relate the simple			
				physical properties of			
				some rocks to their			
				formation (igneous or			
				sedimentary).			

tei fo th tr	Describe in simple terms how fossils are formed when things that have lived are trapped within sedimentary	
Re	rock. Recognise that soils are made from rocks and organic matter.	

NB- Individual pupil Science Assessments will be carried out half termly/termly and will not be recorded in this booklet.