



# Holy Family Catholic Primary School



## Long Term Plan Key-Biology, Physics, Chemistry

	Autumn A	Autumn B	Spring A	Spring B	Summer A	Summer B
Reception	Seasons-Autumn Weather changes in the Environment	Seasons-Winter Investigating ice	Seasons-Spring Animals and their babies	Seasons-Spring Life Cycles e.g. tadpoles, caterpillars.	Seasons-Summer Plants	Seasons-Summer Mini Beasts
	Taught through 'Understand of the world' Seasonal Changes – Seasonal change to cover throughout the year. Seasonal change should involve observations to animals, plants and humans during each season.					
Year 1	Unit 4 Everyday materials Everyday materials Focus scientist-Ole Kirk Christiansen	Seasonal Changes Forces and Space Focus scientist- Jim Cantore	Unit 3 Using our senses Animals including humans Focus scientist- Louis Braille	Unit 2 Looking at animals Animals including humans Focus scientist-George Mottershead Seasonal Changes Forces and Space	Unit 1 Plant detectives Plants Focus scientist- Eden Project	Seasonal Changes Forces and Space
	Seasonal Changes – Seasonal change to cover throughout the year. Seasonal change should involve observations to animals, plants and humans during each season.					
	Explorify Scarf shooter-Video Fantastic Fibres-Video	Explorify Seasons-Video Falling in to place-Video Spring Flowers-Video	Explorify Smelt something that made you happy? Have you ever?	Explorify Hungry hedgehogs-Video Squirrelling-Video Far from home-Video Different homes-odd one out	Explorify Shooting sprouts-what's going on?	Explorify A home for babies-odd one out Baby animals-Odd one out
Year 2	Unit 1 What is in your habitat? Living things and their habitats. Focus scientist-Steve Irwin	Unit 3 Materials: Good choices Uses of everyday materials Focus scientist-Charles Macintosh	Unit 4 Materials: Shaping up Uses of everyday materials Focus scientist-Levi Strauss John Dunlop	Unit 2 The apprentice gardener Plants Focus scientist- Chris Packham	Unit 6 Growing up Animals including humans Focus scientist- Rosalind Franklin	Unit 5 Take care Animals including humans Focus scientist-Albert Szent-Gyorgyi
	Explorify Underglass-Video Nothing lives here..or does it?-Video Rich Pickings-Video	Explorify Spinning a Yarn-Video Flexible Wheel-Video		Explorify What's for dinner-odd one out Tropical fruits-odd one out	Explorify Helped an elderly relative or something? Cared for a baby animal? Fed the birds? -Have you ever? Notice how babies change	Explorify Muddy Meal-Video Special delivery-Video Puddle pals-Odd one out

					as they become toddlers? Have you ever? Cared for a baby animal? Have you ever?	
Year 3	<b>Unit 3 Can you see me?</b> Light Focus scientist-Ibn al-Haythan	<b>Unit 2 Rock detectives</b> Rocks Focus scientist-Mary Anning	<b>Unit 4 The power of forces</b> Forces and magnets Focus scientist-Mary Somerville	<b>Unit 5 Amazing bodies</b> Animals, including humans Focus scientist-Elsie Widdowson	<b>Unit 1 How does your garden grow?</b> Plants Focus scientist-Katherine Esau	<b>Our changing world</b> Plants
	<u>Explorify</u> Been somewhere where you couldn't see anything when you woke up at night? - Have you ever? In the shade- Odd one out In the shadows-Odd one out Sources of light-Odd one out	<u>Explorify</u> Martian Rocks-V Mysterious Dust-V Picked up a rock you found and put it in your pocket? - Have you ever? Animal fossils-Odd one out A hinge in the rock-odd one out	<u>Explorify</u> Used a magnet? - Have you ever? You had magnets as fingers? - What if? Mighty magnets-What's going on?	<u>Explorify</u> Funny bones- Odd one out	<u>Explorify</u> Green producers- Odd one out Three weeds- Odd one out Noticed a plant growing in the crack of a pavement-Have you ever?	<u>Explorify</u> Out to grass-Odd one out Do you like butter? -Zoom in, zoom out
Year 4	<b>Unit 4 Where does all that food go?</b> Animals, including humans Focus scientist-Van Parlour	<b>Unit 2 Good vibrations</b> Sound Focus scientist- Alexander Graham Bell	<b>Unit 5 Human impact</b> Living things and their habitats Focus scientist-Greta Thunberg	<b>Unit 6 who am I? (2 units)</b> Living things and their habitats Focus scientist-Rachel Carson	<b>Unit 3 Switched on</b> Electricity Michael Faraday	<b>Unit 1 In a state</b> States of matter Focus scientist-Dorothy Hodgkin
	<u>Explorify</u> Our digestive organs- Odd one out	<u>Explorify</u> Lyre Liar-What's going on? Pitch perfect-What's going on? Musical beats- Listen what can you hear?	<u>Explorify</u> Seen rubbish where it shouldn't be? Have you ever? Air pollution scientists- What's going on? Pollution everywhere- Odd one out	<u>Explorify</u> Meadow feast-Odd one out Thorny issue-Odd one out	<u>Explorify</u> How can the wind help us? - Big question Had a power cut and not had electricity- have you ever? Everything conducted electricity- What if?	<u>Explorify</u> Neded to dry something quickly? - Have you ever? Had an ice cream melt? - Have you ever? Where is the water? Odd one out

Year 5	<b>Unit 1 Circle of life</b> Animals, including humans Focus scientist-Jane Goodall	<b>Unit 2 reproduction in plants and animals</b> Focus scientist-David Attenborough	<b>Unit 8 The Earth and Beyond</b> Earth and Space Focus scientists-Dr Maggie Adderin-Pocock	<b>Unit 7 Feel the force</b> Forces Focus scientist-Isaac Newton John McAdam	<b>Unit 3 Materials Properties and Changes</b> Properties and changes of materials Focus scientist-Spencer Silver & Arthur Fry	<b>Unit 5 Mixtures and Separation</b> Properties and changes of materials Focus scientists- Marie Curie
	<u>Explorify</u> Which pollinators visit our school grounds?-The big question What's inside a flower? Odd one out	<u>Explorify</u> How does your garden grow? -Mission survive How is the poinsettia different to other flowers? – The big question Prickly plants- odd one out	<u>Explorify</u> Dr Maggie Adderin-Pocock-The big question Space engineer-What's going on? Goldilocks planets-Odd one out Far, far away-Zoom in, zoom out	<u>Explorify</u> 3,2,1, Lift off! – What's going on? Floating bottles- What's going on?	<u>Explorify</u> Hot drinks for cold nights – Odd one out How could a lake stay frozen all year round- Big question Melting ice cubes-What's going on?	<u>Explorify</u> Who is Marie Curie?-Big question Tasted sugar in your cereal milk? Have you ever?
Year 6	<b>Unit 5 Danger! Low voltage Electricity</b> Focus scientist-Nikola Tesla	<b>Unit 6 Light up your world</b> Light Focus scientist-Thomas Edison	<b>Unit 2 Body pump</b> Focus scientist-Barbara Casadei	<b>Unit 3 body health(2 units)</b> Animals including humans Focus scientist-Santorio Santorio	<b>Unit 1 The nature library</b> Living things and their habitats Focus scientist-Carl Linnaeus	<b>Unit 4 Everything changes</b> Evolution and inheritance Focus scientist-Charles Darwin
	<u>Explorify</u> Nuclear energy scientists-What's going on? Soak up some rays- What's going on? Super spinning wire- What's going on?	<u>Explorify</u> Light up the dark-Problem solvers Shine a light- Odd one out	<u>Explorify</u> Get your blood pumping-Odd one out How can we stay fit and healthy as we get older? – The big question	<u>Explorify</u> Had your heart rate measured? - Have you ever?	<u>Explorify</u> Fantastic foxes-Odd one out Adapted to eat ants- Odd one out Terrific tree dwellers- Odd one out How old is that chicken? - Odd one out	<u>Explorify</u> Wildlife in the pond-Odd one out Legs eleven- Odd one out