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<u>Sacred Heart RC Primary School – 'Where every heart is Sacred'</u>

Subject: Science 2022-23



	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
	Family &	Dignity of the	Dignity of Work	Option for the	Stewardship	Rights and
	Community	Human Person		Poor and		Responsibilities
				Vulnerable		•
Nurserv	All About Me!	Twinkle Twinkle Little	Who Are You Going to	What Do We Grow?	Once Upon a Time,	Wish You Were Here,
		Star Do You Know What	Call?		What's Your Favourite	Holidays!
		Colours Are?			Fairytale?	
Reception	Marvellous Me and My	Let's Caelebrate	Amazing Animals	Outside Our World Inside	Planet Earth and Beyond	All Around the World
	Family!			Our Hearts		
KS1 B	Class 1 - Everyday	Class 1 - Animals including	Class 1 - Plants	Plants Class 2 To do inst C	Seasonal changes	Living things and their
(Class 1, 2 & 3)	materials Class 2 - Food and forming	Humans Class 2 Evenuelou	Class 2 - Animals including	Class 2 - 10 do just 6	(YI) Observe shenges serves	naditats (v2)
	Class 2 – FOOD and farming	Class 2- Everyddy materials	numans	lessons of plants	Ubserve changes across	(12) Evalara and compare the
	Class 5 - Everyudy Matariala	Class 2 Animals including	Class 3 - Starting plants	(12) Observe and describe how	Chearya and describe	difforences between
	(v1)	Class 5-Animais including	(Y1)	Coserve and describe now	Ubserve and describe	things that are living
	(11) Distinguish botwoon on	(v1)	Identify and name a	maturo plante	the seasons and how day	dead and things that have
	Distinguish between an	(11) Identify and name a	variety of common wild	Find out and describe how	longth varios	never heen alive
	object and the material	identity and name a	and garden plants,	nlants need water light	iengtii vanes.	Identify that most living
	Irom which it is made.	animals including fish	including deciduous and	and a suitable		things live in habitats to
	identify and name a	amnhihians rentiles hirds	evergreen trees.	temperature to grow and		which they are suited and
	variety of everyday	and mammals	Identify and describe the	stav healthy.		describe how different
	materials, including wood,	Identify and name a	basic structure of a variety			habitats provide for the
	plastic, glass, metal, water	variety of common	of common howering			basic needs of different
	and rock.	animals that are	plants, including trees.			kinds of animals and
	Describe the simple	carnivores, herbivores and				plants, and how they
	physical properties of a	omnivores.				depend on each other.
	variety of everyday	Describe and compare the				Identify and name a
	materials.	structure of a variety of				variety of plants and
	Compare and group	common animals (fish,				animals in their habitats,
	together a variety of	amphibians, reptiles, birds				including microhabitats.
	everyday materials on the	and mammals including				Describe how animals
	pasis of their simple	pets).				obtain their food from
	physical properties.	Identify, name, draw and				plants and other animals,
		label the basic parts of the				using the idea of a simple
		human body and say	1			tood chain, and identify

		which part of the body is				and name different
		associated with each				sources of food.
		sense				
LKS2 B	Class 4 – Animals	Class 4 – Rocks	Class 4 – Forces and	Plants	living things and their	States of matter
(Class 4 5 & 6)	including humans	Class 5 – Rocks	magnets	(Y3)	habitats	(Y4)
	Class 5 – Animals	Class 6 - Rocks	Class 5 – Forces and	Identify and describe the	(Y4)	Compare and group
	including humans	(V3)	magnets	functions of different parts	Recognise that living	materials together.
	Class 6 - Animals	Compare and group	Class 6 - Forces and	of flowering plants: roots,	things can be grouped in a	according to whether they
	including humans	together different kinds of	magnets	stem/trunk, leaves and	variety of ways.	are solids, liquids or gases.
	(vo)	rocks on the basis of their	(V3)	flowers.	Explore and use	Observe that some
	(15) Identific that animals	annearance and simple	Compare how things move	Explore the requirements	classification keys to help	materials change state
	including humans nood	appearance and simple	on different surfaces.	of plants for life and	group, identify and name a	when they are heated or
	the right types and	Describe in simple terms	Notice that some forces	growth (air, light, water,	variety of living things in	cooled, and measure or
	the right types and	how fossils are formed	need contact between 2	nutrients from soil, and	their local and wider	research the temperature
	amount of nutrition, and	when things that have	objects, but magnetic	room to grow) and how	environment.	at which this happens in
	that they cannot make	lived are transed within	forces can act at a	they vary from plant to	Recognise that	degrees Celsius (°C).
	their own tood; they get	nveu ale trappeu within	distance.	plant.	environments can change	Identify the part played by
	nutrition from what they	IUCK. Decomine that sails are	Observe how magnets	Investigate the way in	and that this can	evaporation and
	eat.	Recognise that solis are	attract or repel each other	which water is transported	sometimes pose dangers	condensation in the water
	Identify that humans and	organic matter	and attract some materials	within plants.	to living things.	cycle and associate the
	some other animals have		and not others.	Explore the part that		rate of evaporation with
	skeletons and muscles for		Compare and group	flowers play in the life		temperature.
	support, protection and		together a variety of	cycle of flowering plants,		
	movement.		everyday materials on the	formation and cood		
			basis of whether they are	disporsal		
			attracted to a magnet, and	uispersai.		
			identify some magnetic			
			materials.			
			Describe magnets as			
			having 2 poles.			
			Predict whether 2			
			magnets will attract or			
			repei each other,			
			are facing			
	Class 7 – Properties and	Class 7 - Forces (Most	Class 7 - Farth and snace	All- Living things and their	Light	Flectricity
(Class 7, 9, 8, 9)	changes of materials	lessons)	Class $8 - Earth and space$	habitats		(Y6)
$(Class 7, 0 \otimes 3)$	Class 8 - Properties and	Class 8 - Forces	Class 0 – Earth and space	(Y5)	Pocognico that light	Associate the brightness
	changes of materials	Class 9 - Forces	(VE)	Describe the differences in	appears to travel in	of a lamp or the volume
	Class 9 - Properties and	(V5)	(13) Describe the movement of	the life cycles of a	appears to traver m straight lings	of a buzzer with the
	changes of materials	Evolain that unsurported	the Farth and other	mammal, an amphihian	llea tha idan that light	number and voltage of
	(V5)	objects fall towards the	nlanets relative to the sun	an insect and a bird.	travels in straight lines to	cells used in the circuit
	Compare and group	Farth because of the force	in the solar system.	Describe the life process of	evolain that phieces are	Compare and give
	together everyday	of gravity acting hetween	Describe the movement of	reproduction in some	copiani inai objecis ale	reasons for variations in
	materials on the basis of	the Earth and the falling	the moon relative to the	nlants and animals	or roflact light into the	how components
	their nronerties	obiect.	Earth.		or renect light linto the	function including the
	properties,		Describe the sun. Earth		eye.	initiation, including the

including their hardness	Identify the effects of airand moon as	Explain that we see thingsbrightness of bulbs, the
solubility, transparency	resistance, waterapproximately spherical	because light travels from oudness of buzzers and
conductivity (electrica	lresistance and friction, bodies.	light sources to our eyes orthe on/off position of
and thermal), and	that act between movingUse the idea of the Earth's	from light sources toswitches.
response to magnets.	surfaces. rotation to explain day and	objects and then to ourUse recognised symbols
Know that some	Recognise that somenight and the apparent	eves. when representing a
materials will dissolve in	mechanisms includingmovement of the sun	Use the idea that lightsimple circuit in a
liquid to form a solution	levers, pulleys and gearsacross the sky.	travels in straight lines todiagram
and describe how to	allow a smaller force to	ovnlain why shadows have
recover a substance from	have a greater effect.	the same shane as the
a solution.		chiests that sast them
Use knowledge of solids	,	objects that cast them.
liquids and gases to		
decide how mixtures	5	
might be separated	,	
including through		
filtering, sieving and		
evaporating.		
Give reasons, based or		
evidence from		
comparative and fai	r	
tests, for the particula	r l	
uses of everyday		
materials, including	7	
metals, wood and plastic		
Demonstrate that	t	
dissolving, mixing and		
changes of state are		
reversible changes.		
Explain that some	2	
changes result in the		
formation of new		
materials, and that this	5	
kind of change is no	t l	
usually reversible	,	
including changes	5	
associated with burning	3	
and the action of acid or	ן 	
bicarbonate of soda.		

LKS2 – Light in science week (Y3)

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 an opaque object.

Find patterns in the way that the size of shadows change.