

## St Robert Southwell Catholic Primary School Aiming For Excellence - Being The Best We Can Be

## Year 4 Geography Knowledge Organiser- Looking After Our Planet

What should I already know?				Vocabulary	Important facts
There are 7 continents and 5 oceans.	A biome is a community of plants	and animals that have common	Atmosphere	A layer of gases surrounding a planet.	Types of energy
	characteristics for the environmen		Air pollution	the presence in or introduction into the air of a	There are two types of energy:
Climate is the average weather conditions of a	area.	-		substance which has harmful or poisonous effects.	renewable and non-renewable.
place, including rainfall and temperature.	A vegetation belt is an area of the		Biomass	biological material derived from living, or recently	Non-renewable energy includes
·	flora (plants) due to climatic condi			living organisms	coal, gas and oil. Most cars, trains
Mineral Map of		Ņ	Climate	the average weather conditions for a place usually	and planes use non-renewable
THE WORLD	THE	<b>A</b>		measured over a long period	energy. They are made by burning
	1 10 7	tale.	Environment	everything in the world around us that surrounds	fossil fuels to create energy.
(a)		marcas		and affects all life on earth, including the air, food	Renewable energy includes solar,
200 4	00 m o s	· Other		chains, the water cycle, plants, animals and other	hydro and wind energy. Wind
		5 60 ()-		humans.	energy is made when the wind
		7.7/	Fossil fuels	Fuels that come from old life forms that decompose	turbine. This movement creates
• • • • • •		0 440		over a long period of time. The three most	wind energy which is converted
# BOO .		00)		important fossil fuels are coal, petroleum, and	into electrical energy.
S		80. 8	0	natural gas	
NAVA Name		The market	Geothermal	heat drawn from inner layers of the Earth	The carbon cycle
	a bearing in the		energy	are at ad by hymnone on woods have as and as a state	
LEGEND *	) Fig.	Latin Market	Human feature	created by humans, e.g. roads, houses and canals	Carbon is an essential element for
Uranium Silver			Hydro	electricity that is created by the flow of water	life on Earth. Every living organism
● Oil ▲ Lead & Zinc			Electricity	electricity that is created by the now of water	has carbon compounds inside
O Iron		· ·	Latitude	how far north or south a place is from the equator.	each of its cells, such as fats and
* Bauxite	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	T.	Mineral	a mineral is a substance that occurs naturally	proteins. The carbon cycle shows
Copper S Gold		7.4	Non-	energy from a source that can be used up and no	how atoms of carbon can exist
- 300	*	· 1	renewable	longer be available	within different compounds at
0 1800km	and the same	and and	energy	lenger be available	different times and be recycled
Copyright © 2008-09 www.mapsofworld.com		Geographical Skills and	Physical	naturally occurring feature, e.g. rivers and	between living organisms and the environment.
Diagrams		Enquiries	feature:	mountains	environment.
water pollution	surface & groundwater	Investigating the school	Recycled:	'discarded' or 'end-of-life items' converted into a	What is the difference between
mass political.	pollution	grounds to encourage wildlife.		reusable item or material	a mineral and a rock?
			Renewable	energy source that will never be used up	Minerals have a specific chemical
		Investigating school	energy		_structure which is the same
	<b>د</b> رد ک	sustainability.	Solar energy	sunlight into electricity	throughout the entire mineral.
	***		Sustainability	ability to maintain balance between natural	Rocks, on the other hand, are
urban agricultural inc	dustrial landfills eutrophication landfills pollution	Pose scientific enquiry		ecological systems through not harming the	composed of a variety of different
0,000		questions and gather	Tide! answer	environment or using up resources that will run out	_minerals and are not consistent
runoff's dirt & oil parking, roads, cars fertilizers & pesticide animal waste	dustrial chemicals human activities improperly built or maintained organic pollution	evidence from around the	Tidal energy	a form of hydropower that converts the energy of tides into useful forms of power	throughout their structure.
oil tankers		school.		tides this decidi forms of power	Quiz
oil tankers oil, petrochemicals		Use fieldwork to observe,			What is the power produced
	/ DIO O O O O O	measure, record and present	Wave energy	the capture of energy from ocean surface waves for	by the sun called?
# # # # # # # # # # # # # # # # # # # #	N M M M M M M M M M M M M M M M M M M M	the human and physical		electricity generation	2. What is the ozone layer?
	TYYY Y	features in the local area			3. What is the effect of burning
		using a range of methods,			fossil fuel?
		including sketch maps, plans	Wind power	energy extracted from wind using wind turbines to	4. How is life and pollution
		and graphs, and digital		produce electrical power.	different in different parts of the world?
		technologies.			5. List 4 things humans can do
contruction, roadwork tanks & pipelines		-			to protect the environment.
tanks with petroleum	È VIII -				to protect the chimioninent.
dust, oil, grease, chemicals	0:				