

## Pannerman Road COMMUNITY ACADEMY YEARLY OVERVIEW: SCIENCE

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Reception Understanding the World	What is in the immediate world around us?	What is in the world around us beyond home and school?		How do we care for living things?  Planting and growing	How do plants and animals change?  Life-cycles:	
	questions about: 1.Homes 2.The natural world- new Reception outdoor area and Forest School 3.New Reception Classroom- getting to know the provision	questions about: The natural world- farm trip farm animals and plants (The Little Red Hen)		Exploring the natural world- making observations and drawing pictures of animals and plants (The Enormous Turnip)	Tadpoles Butterflies Plants (Forest School)	
Year 1		How do we use		How are animals		What makes up a
		everyday materials?		different?		plant? (8)
When will they do		(12) Everyday Materials - Names		Animals, including humans		Plants – parts of a plant,
seasons?		of materials (Chemistry)		(Biology)		deciduous & evergreen (Biology)
		Working Scientifically		Working Scientifically Focuses:		Working Scientifically
		Focuses:		-WS1 Asking questions and		Focuses:
		<ul> <li>WS4 Engaging in practical enquiry to answer questions</li> </ul>		recognising that they can be answered in different ways		-WS2 Making observations and taking measurements
		- <b>WS5</b> Answering Questions		- <b>WS4</b> Engaging in practical		- <b>WS6</b> Recording and
		and concluding		enquiry to answer questions		Presenting evidence
		-WS6 Recording and Presenting evidence				-WS4 Engaging in practical enquiry to answer questions
		-WS3 Engaging in practical				What can the human
		enquiry to answer questions				body do?
						(4) Animals, including humans —
						human body and senses
						(Biology)

Year 2		What can materials do?  (8)  Use of everyday Materials: Properties of materials (Chemistry)  Working Scientifically Focuses:  -WS5 Answering Questions and concluding  -WS4 Engaging in practical enquiry to answer questions	How do we live a healthy life? (4)  Animals, including humans — balanced diet (Biology)  Working Scientifically Focuses:  - WS1 Asking questions and recognising that they can be answered in different ways	How do plants grow?  (4)  Plants - Growing plants (Biology)  Working Scientifically Focuses:  -WS2 Making observations and taking measurements	How do animals and their habitats link? (10) Living things and their habitats - Habitats and food chains Animals, including humans – life cycles (Biology)  Working Scientifically Focuses:  -WS1 Asking questions and recognising that they can be answered in different ways  -WS6 Recording and Presenting evidence  -WS4 Engaging in practical enquiry to answer questions	
Year 3	What is our body made up of? (6) Animals, including humans: Skeleton (Biology) Working Scientifically Focuses: -WS7 Communicating their findings	How are rocks and soils formed?  (4) Rocks (Chemistry)  Working Scientifically Focuses:  -WS1 Asking questions and recognising that they can be answered in different ways  Where does the darkness come from?  (8) Light: Light & shadow (Physics)  Working Scientifically Focuses:  -WS1 Asking questions and recognising that they can be answered in different ways  -WS2 Making observations and taking measurements		How do plants reproduce? (6) Plants: Plant reproduction, water transport & adaptation (Biology)  Working Scientifically Focuses:  -WS3 Engaging in practical enquiry to answer questions  -WS6 and WS8 Recording and presenting evidence  -WS2 Making observations and taking measurements		How do forces affect our lives? (10) Forces & Magnets (Physics)  Working Scientifically Focuses:  -WS9 Evaluating and raising further questions and predictions  -WS4, WS5 and WS9 Answering Questions and Concluding  -WS3 Engaging in practical enquiry to answer questions

	-WS3 Engaging in practical			
	enquiry to answer questions			
Year 4	How do we use	What happens to our	Where does our water	How does sound make
	electricity?	food?	come from?	music?
	(8)	(12)	(4)	(12)
	Electricity (Physics)	Animals, including human:	States of Matter (Chemistry)	Sound (Physics)
		Digestion, teeth	*water cycle taught through	
	Working Scientifically		the geography lessons in this	Working Scientifically
	Focuses:	Living things and their habitats: food chains (Biology)	unit	Focuses:
	-WS9 Evaluating and raising		Working Scientifically	-WS3 Engaging in practical
	further questions and predictions	Working Scientifically Focuses:	Focuses:	enquiry to answer questions
	predictions		-WS2 Making observations	-WS4 and WS5 Answering
	-WS3 Engaging in practical	-WS1 Asking questions and	and taking measurements	Questions and Concluding
	enguiry to answer questions	recognising that they can be		
	, ,	answered in different ways	-WS6 and WS8 Recording and	How can we classify
			presenting evidence	living things?
		-WS7 Communicating their		(4)
		findings		Living things and their
				habitats: Animal classification
				& habitats (Biology)
				-WS6 and WS8 Recording and
				presenting evidence
Year 5	What will we find in	Why do we need the		How can materials
	3	rainforests?		change?
	space?			
	space?			(12)
	(12)	(3)		
				(12)
	(12) Earth, Space and forces: Space	(3) Living things and their		(12) Everyday Materials: Properties + change of materials: Changes in
	(12) Earth, Space and forces: Space & Forces,	(3) Living things and their		(12) Everyday Materials: Properties + change of
	(12) Earth, Space and forces: Space & Forces, Gravity, air & water resistance (Physics)	(3) Living things and their habitats: Life cycles (Biology)		(12) Everyday Materials: Properties + change of materials: Changes in materials (Chemistry)
	(12)  Earth, Space and forces: Space & Forces, Gravity, air & water resistance (Physics)  Working Scientifically	(3) Living things and their habitats: Life cycles (Biology)  Working Scientifically Focuses:		(12) Everyday Materials: Properties + change of materials: Changes in materials (Chemistry)  Working Scientifically
	(12) Earth, Space and forces: Space & Forces, Gravity, air & water resistance (Physics)	(3) Living things and their habitats: Life cycles (Biology)  Working Scientifically Focuses:  -WS4 Communicating their		(12) Everyday Materials: Properties + change of materials: Changes in materials (Chemistry)
	(12) Earth, Space and forces: Space & Forces, Gravity, air & water resistance (Physics)  Working Scientifically Focuses:	(3) Living things and their habitats: Life cycles (Biology)  Working Scientifically Focuses:		(12) Everyday Materials: Properties + change of materials: Changes in materials (Chemistry)  Working Scientifically Focuses:
	(12) Earth, Space and forces: Space & Forces, Gravity, air & water resistance (Physics)  Working Scientifically Focuses:  WS1 Making Observations	(3) Living things and their habitats: Life cycles (Biology)  Working Scientifically Focuses:  -WS4 Communicating their		(12) Everyday Materials: Properties + change of materials: Changes in materials (Chemistry)  Working Scientifically Focuses:  -WS6 and WS4 Evaluating and
	(12) Earth, Space and forces: Space & Forces, Gravity, air & water resistance (Physics)  Working Scientifically Focuses:	(3) Living things and their habitats: Life cycles (Biology)  Working Scientifically Focuses:  -WS4 Communicating their		(12) Everyday Materials: Properties + change of materials: Changes in materials (Chemistry)  Working Scientifically Focuses:
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	(12) Earth, Space and forces: Space & Forces, Gravity, air & water resistance (Physics)  Working Scientifically Focuses:  WS1 Making Observations and taking measurements  -WS2 asking question and recognising that they can be answered in different ways  -WS3 Answering questions	(3) Living things and their habitats: Life cycles (Biology)  Working Scientifically Focuses:  -WS4 Communicating their		(12) Everyday Materials: Properties + change of materials: Changes in materials (Chemistry)  Working Scientifically Focuses:  -WS6 and WS4 Evaluating and raising further questions and predictions  -WS5 Recording and presenting evidence  -WS2 engaging in practical
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Year 6	How do we live healthy	How do living things	How does light help us
	and safe lives?	evolve?	to see?
	(12)	(12)	(9)
	Animals, including humans:	Living things + their habitats.	Light (Physics)
	Circulation etc (Biology)	Evolution + inheritance:	Working Scientifically
		Evolution (Biology)	Focuses:
	Working Scientifically	Working Scientifically	Totases.
	Focuses:	Focuses:	-WS1 Making Observations
	-WS4 communicating their	Tocuses.	and taking measurements
	-W34 communicating their	- <b>WS3</b> Answering questions	
	111111189	and concluding	-WS5 recording and
	-WS4 Evaluating and raising		presenting evidence
	further questions and	-WS5 recording and	-WS2 engaging in practical
	predictions	presenting evidence	enquiry to answer questions
	MC2 A second sec		enquity to unotice questions
	- <b>WS3</b> Answering questions and concluding		
	and concluding		
	-WS5 recording and		
	presenting evidence		
	presenting evidence		