



Whole School Long Term Overview: Science

Rationale

KS3

Science in Key stage 3 is delivered through half and termly units of work that are based around the following 3 areas:

- Physical Processes – (Physics)
- Materials – (Chemistry)
- Life processes (Biology)

Throughout the 3 years students will revisit learning across the three core themes and build on prior skills and knowledge allowing them to make sense of the world around them.

KS4

Science in Key stage 4 is delivered through half termly units of work that based around the following 3 areas:

- Physical Processes – (physics)
- Materials – (chemistry)
- Life processes (Biology)

Throughout the 2 years students will revisit learning and build on prior skills and knowledge acquired in KS3 allowing them to make sense of the world around them.

To ensure a broad and balanced curriculum offer, pre formal ASC learners will access and engage with scientific resources and concepts across Physical Processes, Materials and Life processes.

KS5



Transition to Adulthood

Science in Key stage 5 is delivered through a mixture of termly and continuous accredited units of work that based around the following 2 areas:

- Materials – (Chemistry)
- Life processes (Biology)

Throughout the 3 years students will revisit learning and build on prior skills and knowledge acquired in KS3 and 4. They will develop their interests and apply their learning to work based contexts. This will support students to pursue opportunities beyond The Meadows School.

Pathways:	Foundations for Life	Learning for Life	Options for Life
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	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
KS3 YEAR 1 2024-25	Physical processes Forces and motion		Materials Grouping and Classifying Materials and their Properties		Life Processes Green Plants	
	Physical processes Forces and motion	Physical processes Electricity and magnetism	Materials Grouping and Classifying Materials and their Properties		Life Processes Keeping Healthy	Life Processes Green Plants



	Physical Processes (Physics) See white rose Year 3 Forces Summer weeks 6 - 8	Physical Processes (Physics) See white rose Year 3 Magnets Summer weeks 9 – 10 Year 4 Electricity Spring Weeks 7 – 10	Materials (chemistry) See White Rose Year 1 Materials Autumn weeks 7 - 11	Life processes (biology) See white rose Year 2 Humans Autumn weeks 5 - 6	Life processes (biology) White rose Year 1 Plants Summer weeks 1 - 5
KS3 YEAR 2 2025-26	Physical processes Light and sound		Materials: Changing materials and their properties		Life processes: Living things and their environment
	Physical processes Light and sound	Physical Processes: Earth and beyond	Materials: Changing materials and their properties		Life processes: Living things and their environment
	Physical Processes (Physics) Light See white rose year 3 Spring Weeks 6 – 11	Physical Processes (Physics) Space See white rose Year 5 Autumn Weeks 6 - 10	Materials (chemistry) See White Rose Year 2 Autumn Materials weeks 7 - 11	Life processes (biology) See white rose year 2 Spring Living things and their habitats weeks 4 - 10	Life processes (biology) See white rose Year 1 Spring Animals weeks 2 – 7



KS3 YEAR 3 2026-27	Physical processes Electricity and magnetism		Materials Separating materials and their properties	Life Processes The Human body	
	Physical processes Forces and motion	Physical processes Electricity and magnetism	Materials Separating materials and their properties	Life Processes The Human body	Life Processes Green Plants
	Physical Processes (Physics) Physical Processes (Physics) See white rose Year 3 Forces Summer weeks 6 - 8	Physical Processes (Physics) See white rose Year 3 Magnets Summer weeks 9 – 10 Year 4 Electricity Spring Weeks 7 - 10	Materials (chemistry) See White Rose Year 3 Autumn Rocks weeks 9 – 11 Fossils and Soils Spring Weeks 1 - 5	Life processes (biology) White rose Year 1 The Human Body Autumn weeks 1 - 5	Life processes (biology) White rose Year 2 Spring Close drawer Plants (light and dark) weeks 1 – 3 Plants (bulbs and seeds) Summer weeks 1 – 2

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
KS4 YEAR 1 2024-25	Materials and their properties heating and cooling		Physical processes Forces and Motion		Life processes & living things variation and classification	
	Materials and their properties Grouping and classifying	Materials and their properties changing materials and their properties	Physical processes Forces and Motion	Physical processes earth and beyond	Life processes & living things Keeping healthy	Life processes & living things variation and classification
	Materials (chemistry)		Physical processes (physics) Forces and		Life Processes (biology) – Animals	



	See White Rose Year 1 Autumn term weeks 7 - 11		magnets See white rose year 3 Spring term weeks 6 – 11 Physical Processes (Space) See white rose Year 5 Autumn term Weeks 6 - 10		See White Rose Year 1 Spring term weeks 2 – 7 Life Processes (biology) – Nutrition and diet weeks 5 -7	
KS4 YEAR 2 2025-26	Materials and their properties Grouping and classifying		Physical processes Light and sound		Life processes The Human Body	
	Materials and their properties heating and cooling	Materials and their properties separating materials and their properties	Physical Processes Light and Sound	Physical processes Electricity and Magnetism	Life Processes The life cycle of Humans Growing up	Life processes green plants
	Materials (chemistry) See White Rose Year 2 Autumn term weeks 7 - 11		Physical Processes (Physics) Light See white rose year 3 Spring term Weeks 6 – 11 Physical processes (physics) Forces and magnets See white rose year 3 Spring term weeks 6 – 11		Life Processes (biology) Plants See white rose summer term year 1 weeks 1 – 5 Life processes Biology Growing up Year 2 Weeks 3 - 6	

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
KS5 YEAR 1 2024-25					Optional- LSC- Sensory gardening/Participate in Gardening activities WTE 1- E1	



				LSC- Gardening activities Entry 1-2
				LSC- Gardening activities Entry 3 Level 1 -Participate in Gardening
KS5 YEAR 2 2025-26			LSC-Exploring changes / Science Investigation WTE 1- E1	
			LSC- Science Investigation Entry 1-2	
			LSC-Exploring changes / Science Investigation Entry 3 Level 1: Carrying out Scientific experiments	
	PSD- Environmental Awareness (Life processes) Entry 2-3 and Level 1			
KS5 YEAR 3 2026-27				LSC- DFS Horticulture WTE 1- E1
				LSC- DFS Horticulture Entry 1-2



				LSC- DFS Horticulture Entry 3 Level 1- Design, purchase and install basic garden