## Marshalls Park Academy - Curriculum Overview



Subject: Science Year Group: 7 Curriculum/Subject Leader: ZST

MPA

Academic Year: 23/24

During Year 7, students will begin to explore and understand new and exciting topics in Science. This will be achieved through a mixture of theoretical and practical-based lessons that will develop their knowledge and skills in the study of Science.

TERM 2	TERM 3
KNOWLEDGE/SKILLS	KNOWLEDGE/SKILLS
Knowledge:	Knowledge:
Chemistry: Reactions (acids and alkali, indicators and pH,	Biology: Genes (variation, evolution, adolescence, reproductive
	systems, menstrual cycle and fertilisation and development)
, , , , , , , , , , , , , , , , , , ,	Biology: Ecosystems (food chains, competition, flowers and pollination, seed dispersal, fertilisation and germination)
	polimation, seed dispersal, rectilisation and germination)
reflection and refraction, the eye, vision and colour)	
	KNOWLEDGE/SKILLS Knowledge: Chemistry: Reactions (acids and alkali, indicators and pH, neutralisation, making salts, reactions with metals and non-metals) Physics: Electromagnets (Potential difference, resistance, series and parallel circuits, current, static charge) Physics: Waves (sound waves, the ear and hearing, light,

## Skills:

- AO1: Demonstrate knowledge and understanding of: scientific ideas; scientific techniques and procedures.
- AO2: Apply knowledge and understanding of: scientific ideas; scientific enquiry, techniques and procedures.
- AO3: Analyse information and ideas to: interpret and evaluate; make judgments and draw conclusions; develop and improve experimental procedures.

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KEY ASSESSMENTS	KEY ASSESSMENTS	KEY ASSESSMENTS
HALF TERM 1		HALF TERM 2
Baseline test	HALF TERM 2	End of unit test including units: Waves, Genes and
	End of unit test including units: Energy, Reactions and	Ecosystems – 1hr
HALF TERM 2	Electromagnets – 1hr	
End of unit test including units: Organisms, matter		End of year test – 1hr
and Forces – 1hr		

Extended reading suggestions and links to external resources:

http://www.physics4kids.com/

http://www.biology4kids.com/

http://www.chem4kids.com/

https://www.bbc.com/bitesize/subjects/zng4d2p

Revision guide suggestion: Letts KS<sub>3</sub> Success Science Complete coursebook (age 11-14)

The Skeleton Inside You by Philip Balestrino

Lost in the Solar System (The Magic School Bus, #4) by Joanna Cole