Science – Y7

MAGHULL HIGH SCHOOL – CURRICULUM MAP



	Lessons Sequence					
TOPIC (S)	 Scale of the solar system 	5. Other space objects		9. Methods to explore space		
SPACE	2. The planets	Mid topic assessment		10. Historical ideas about the solar system		
SPACE	3. The moon	7. Days and Seaso	ons	11. Life cycle of stars		
	4. Crater investigation 8. The weight equ		uation 12. End of topic assessment			
Knowledge & Skills	 Use of different scales of measurement 		 Using equations 			
development	 Planets distance from the sun linked to 	 Comparison and evaluation of different methods to explore 				
	planet		space			
	 Phases of the moon and the causes of 	clipses • Knowledge		of different models of the solar system through		
	 Descriptions of other space objects and 	•				
	 Causes of day and night and the season 	is on Earth	 The stages in the 	ne life cycle of different s	life cycle of different size stars	
Assessment /	Targeted questioning Teacher assessment	AWOL assessment –	Mid topic assessment	Homework topic quiz	End of topic	
Feedback	throughout topic of practical skills	formative teacher	– formative	formative	assessment – teacher	
Opportunities	during investigation -		assessment	assessment	summative	
	verbal	students books			assessment	
Cultural Capital	Possible visit to Jodrell bank or visiting guest speaker					
	Use of the school telescope					
SMSC / Promoting	 Multinational organisations (e.g. ESA) working together on projects like the international space station 					
British Values	Listening to others during presentations					
(Democracy, Liberty, Rule of Law, Tolerance & Respect)	Working in groups during practicals or research tasks					
	 Societal response to changing ideas about 		olar system			
_	Various reading and comprehension activities embedded within scheme of work					
opportunities						
Key Vocabulary	Independent Variable, Dependent Variable, Control Variables, Method, Conclusion, Precaution, Evaluation, Reliable, Precision, Valid, Anomaly					
	Solar System, Orbit, Satellite, Eclipse, Crater, Asteroid, Meteor, Comet, Galaxy, Universe, Constellation, Season, Earth's Axis, Mass, Gravity,					
Digital Litareau	Weight, Telescope, Astronaut, Probe, Heliocentric, Geocentric, Supernova, Nebula, Black Hole SharePoint resources including topic quiz, use of computers to research different planets Describe use of excel to plot graphs and applyed data, powerpoint, word, etc to present information, internet for research					
Digital Literacy						
Cross-Curricular Links	Possible use of excel to plot graphs and analyse data, powerpoint, word, etc to present information, internet for research Numeracy/Maths – averages (means), reading scales, graph plotting, lines of best fit, using and rearranging equations, using scientific calculators					
Cioss-Curricular Lilks	History – timeline of changing ideas about the structure of the solar system					
Careers	Careers with NASA or the ESA including astrophysicist, astronaut, aerospace engineer, etc. Engineers involved with satellites					
Curcers	careers with the for the 25% including astrophysicist, astronaut, acrospace engineer, etc. Engineers involved with satellites					
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