

how to explain what a solar system is.

relation to satellites.

n LP4.5, I will k



PPQ stars

satellite

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Year 11 Physics		
Learning Programme 4		
The LORIC skill focus for his LP is: INITIATIVE.		Literacy:
The Moral Virtues focus for this LP are: INTEGRITY and GRATITUDE.		Capital letters must be used at the start
Integrity - Having strong moral principles.		of sentences and for the first letter of
Gratitude - Feeling and expressing thanks.		<ul> <li>Full stops must be used at the end of a</li> </ul>
What will I be learning about in this Learning Programme?		sentence
Magnetism. Electromagnetism. GCSE revision.		Question marks must be used at the
		end of a question
		Apostrophes should only be used for
Where have I seen this learning hefore?		<ul> <li>possession or omission</li> <li>Days of the week and months must be</li> </ul>
You have studied basic magnets at KS3 and KS2. The rest of the LP will be spent revisiting learning from Y10 and Y11 in preparation for yc	spelled correctly	
		Key words must be spelled correctly
What could Luse it for?	magnotism is crucial	
for electrical and mechanical engineers and electricians	nagnetisin is cruciai	
in LP4.1, I will know: 04/03/24 - (WK 1)	Key Vocabulary	Homework
now to construct accurate ray diagrams to illustrate reflection and refraction of waves at a surface. Construct a wave front diagram for		PPQ on lens diagrams
'erraction.	electromagnet	
	electromagnet	
n LP4.2, I will know: 11/03/24 - (WK 2)	Key Vocabulary	Homework
now to describe uses of electromagnets		PPT magnetism
now to use Fleming's Left Hand Rule to deduce the direction of force/current/magnetic field. Apply and rearrange the equation F=BII.		
how to explain how a motor works, using Herning's Left Hand Rule to predict it's direction of motion.	alternating	
in LP4.3, I will know: 18/03/24 - (WK 1)	Key Vocabulary	Homework
how to explain how a transformer works. Use the transformer equation to calculate increase/decrease in p.d/current;		PPQ transformers
	generator	
Extended Task		
In LP4.4, I will know: 25/03/24 - (WK 2)	Key Vocabulary	Homework

how to describe the life cycle of a star for stars the size of the Sun and much larger than the Sun. Explain how forces within a star change as it moves through its life cycle; how to describe the relationships between centripetal force, orbital radius and velocity in

15/04/24 - (WK 1)



how to explain how Red Shift and the Cosmic Microwave Background Radiation provides evidence for the Bi	g Bang.	PPQ redshift
	radiation	
In LP4.6, I will know: 22/04/24 - (WK 2)	Key Vocabulary	Homework
Revision Energy		past exam papers
Extended Task.		
In LP4.7, I will know: 29/04/24 - (WK 1)	Key Vocabulary	Homework
revision Electricity		past exam papers
revision Particle Model		
revision Radioactivity		
In LP4.8, I will know: 06/05/24 - (WK 2)	Key Vocabulary	Homework
Revision Forces		past exam papers
Resources to support learning:		
Carousel Learning, Physics Booklets from lesson (both content and revision). All on TEAMS		
FFET Award Challenge for this Learning Programme:		
LP4 Year 11 Science: Complete a Practice paper independently		