

# Physics Long Term Programme of Study Year 11 2021-2022

## Temperance Term

W/C	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	HALF TERM
Area of Study	<b>Revision of Paper 1 Topics</b>		<b>Y11 Baseline Testing</b>	<b>P8 Space Physics</b>				
Core Learning				<ul style="list-style-type: none"> <li>-Explain the evidence for the expanding universe and the life cycle of a star</li> <li>-Describe and explain the life cycle of stars, including the idea of fusion</li> <li>-Explain how the size of the orbit depends on the objects speed.</li> <li>-Explain the red shift and how it provides evidence for the Big Bang model</li> </ul>				
Opportunities for Challenge				Explain the red shift and how evidence suggests the whole universe appears to be expanding				
Assessment				End of Topic Tests				

W/C	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13	CHRISTMAS
Area of Study	<b>P6 Waves Review</b>			<b>Revision of Paper 2 Topics</b>	<b>Mock Exams</b>		
Core Learning	<p>Show how changes in velocity, frequency and wavelength, in transmission of sound waves from one medium to another, are inter-related</p> <p>Revision</p>						
Opportunities for Challenge	Evaluate evidence that, for both ripples on a water surface and sound waves in air, it is the wave and not the water or air itself that travels.						
Assessment	End of Topic Tests						

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## Justice Term

W/C	Week 14	Week 15	Week 16	Week 17	Week 18	Week 19	HALF TERM
Area of Study	<b>P5- Forces</b>	<b>P7- Magnetism and Electromagnetism</b>	<b>P1- Energy</b>	<b>P2- Electricity</b>	<b>Science Application – Focus on exam questions and Science skills</b>		
Core Learning	<b>P5 Identify and measure forces acting on objects</b>  Revision	<b>P7-Explain how electromagnetic effects are used in a variety of devices</b> Revision	<b>P1 - There are changes in the way energy is stored when a system changes. Students should be able to describe all the changes involved in the way energy is stored when a system changes, for common situations.</b> Revision	<b>P2-Describe how to calculate resistance and the factors which can alter it. Describe how electricity is delivered to our homes and businesses.</b> Revision			
Opportunities for Challenge	Grade 7, 8, 9 challenge questions	Grade 7, 8, 9 challenge questions	Grade 7, 8, 9 challenge questions	Grade 7, 8, 9 challenge questions			
Assessment	Self assessment and in-class tests	Self assessment and in-class tests	Self assessment and in-class tests	Self assessment and in-class tests			

W/C	Week 20	Week 21	Week 22	Week 23	Week 24	Week 25	EASTER
Area of Study	<b>P3- Particle Model of Matter</b>		<b>P4- Atomic Structure</b>		<b>P6 Waves</b>	<b>P8 Space Physics</b>	
Core Learning	<b>P3 – Use the particle model to predict the behaviour in solids, liquids and gases.</b>  Revision		<b>P4 – Describe the structure of the atom, the nuclear forces and atom stability.</b>  Revision		<b>P6-Show how changes in velocity, frequency and wavelength, in transmission of sound waves from one medium to another, are inter-related</b>  Revision	<b>P8-Explain the evidence for the expanding universe and the life cycle of a star</b>  Revision	



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<b>Opportunities for Challenge</b>	Grade 7, 8, 9 challenge questions	Grade 7, 8, 9 challenge questions	Grade 7, 8, 9 challenge questions	Grade 7, 8, 9 challenge questions	
<b>Assessment</b>	Self assessment and in-class tests	Self assessment and in-class tests	Self assessment and in-class tests	Self assessment and in-class tests	

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## Courage Term

W/C	Week 26	Week 27	Week 28	Week 29	Week 30	Week 31	HALF TERM
Area of Study	<b>P5- Forces</b>	<b>P7- Magnetism and Electromagnetism</b>	<b>P1- Energy</b>	<b>P2- Electricity</b>	<b>Science Application – Focus on exam questions and Science skills</b>		
Core Learning	Identify and measure forces acting on objects Revision	P7-Explain how electromagnetic effects are used in a variety of devices Revision	P1 - There are changes in the way energy is stored when a system changes. Students should be able to describe all the changes involved in the way energy is stored when a system changes, for common situations. Revision	P2-Describe how to calculate resistance and the factors which can alter it. Describe how electricity is delivered to our homes and businesses. Revision			
Opportunities for Challenge	Grade 7, 8, 9 challenge questions	Grade 7, 8, 9 challenge questions	Grade 7, 8, 9 challenge questions	Grade 7, 8, 9 challenge questions			
Assessment	Self assessment and in-class tests	Self assessment and in-class tests	Self assessment and in-class tests	Self assessment and in-class tests	<b>GCSE Exams</b>		

W/C	Week 32	Week 33	Week 34	Week 35	Week 36	Week 37	SUMMER
Area of Study							
Core Learning							
Opportunities for Challenge							
Assessment	<b>GCSE Exams</b>						