

Physics Curriculum – Carre’s Grammar School

Subject						
	Autumn 1	Autumn 2	Spring 3	Spring 4	Summer 5	Summer 6
Year 12	Mr Whiting 4.1 Charge and current 4.2 Energy, power and resistance 4.3 Electrical circuits		Mr Whiting 4.4 Waves 4.5 Quantum physics 3.4 Materials		Revision up to Y12 exams, then 5.2 Circular motion PAG11 - Investigative report PAG12 - Research report	
	Mr Stone 3.1 Motion 3.2 Forces in action		Mr Stone 3.3 Work, energy and power 3.5 Newton’s laws of motion			
	Key Assessments <ul style="list-style-type: none"> • Early Sep – transition assessment • Early-Nov – 4.1-4.3 assessment • Mid-Nov – 3.1-3.2 assessment 		Assessment <ul style="list-style-type: none"> • Mid-Jan – 4.4 mid-topic • End-Jan – 4.4 assessment • End-Feb – 4.5 assessment • End-Mar – 3.4 assessment 		Assessment <ul style="list-style-type: none"> • End-Apr – Year 12 exams on Modules 1-4. • End-May – 5.2 assessment • End-Jun – PAG12 hand-in • End-Jul – PAG11 hand-in 	

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Year 13	5.3 – Oscillations 5.4 – Gravitational fields 5.1 – Thermal physics 6.2 – Electric fields 6.3 – Electromagnetism		6.4 – Nuclear and Particle physics 5.5 – Astrophysics and cosmology 6.1 – Capacitors 6.5 – Medical imaging		Revision	
	Assessment <ul style="list-style-type: none"> • End Sept – Mock exams on Modules 1-4. • Early Oct – 5.3 assessment • Early Nov – 5.4 assessment • Late Nov – 5.1 assessment • Mid Dec – 6.2 assessment 		Assessment <ul style="list-style-type: none"> • Mid Jan – 6.3 assessment • Early Feb – 6.4 assessment • Late Feb – Mock exam – Topics 1,2,3 and 5. • Mid Mar – 5.5 assessment • Late Mar – 6.1 assessment 		Assessment <ul style="list-style-type: none"> • Late Apr – 6.5 assessment • Final exams May/June 	

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Year 11	Topic 6 – Waves <ul style="list-style-type: none"> • Describing and measuring properties of waves • Explaining the appearance of objects by considering interactions of light with their surfaces. • Describing the emission and absorption of infrared radiation. • Describing the production, detection, properties, uses and hazards of electromagnetic waves. • Investigating reflection and refraction. • Lenses, including drawing ray diagrams and describing the properties of the images formed. • Using sound, ultrasound and seismic waves for detection and exploration. 	Topic 8 – Space physics <ul style="list-style-type: none"> • Describing the structure of the Universe. • Describing the orbital motion of planets and satellites. • Describing the formation, lifecycle and death of stars of different masses. • Explain what is meant by the Doppler Effect. • Explain the evidence for the Big Bang theory. 	REVISION			
	Assessment <ul style="list-style-type: none"> • September – Assessment questions on parts of Topic 5 and 7 which were covered in lockdown. 	Assessment <ul style="list-style-type: none"> • Beginning of January– End of topic assessment on Topic 6. • Mid-February – End of topic assessment on Topic 8. 	Assessment <ul style="list-style-type: none"> • Ongoing mini-assessments as part of revision. • May/June – Final GCSE exams. 			

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	<ul style="list-style-type: none">• End of November – Mock exam: Paper 1 (Topics 1-4)	<ul style="list-style-type: none">• Beginning of March – Mock exams on both Paper 1 (Topics 1-4) and Paper 2 (Topics 5-8)	
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