(Year 10 Physics) Long-Term Plan

Ousedale School
Be Kind | Work Hard | Succeed Together

Long-term planning (LTPs) - Planning how the key concepts, knowledge, skills identified in the Progression map will be delivered termly per year group
Ensuring that end points & NC/spec are covered
Identifying what assessments are planned and when
Ensuring whole school intent priorities to be planned for

(Year 10 Physics)						
	Autumn 1	**Autumn 2**	**Spring 1**	**Spring 2**	**Summer 1**	**Summer 2**
Unit title:	P6 Molecules and Matter	P4 Electric Circuits/P5 Electricity in the Home	P7 Radioactivity	P8 Forces in Balance	P9 Motion	P10 Forces and Motion/P11 Forces and Pressure
Unit length:	7 lessons	8 lessons / 5 lessons	9 lessons	9 lessons	4 lesson	4 lessons
Key concepts:	Density The Kinetic model of matter Changes of state Internal energy Specific Heat Capacity and latent heat Gas pressure	Current, pd and resistance in series and parallel circuits Resistor characteristics Mains electricity – power and safety Energy transfers The National Grid Static electricity Electric fields	The nuclear model Radioactive decay and half lives Radioactive contamination Background radiation and medical uses Nuclear fission and fusion	Vectors and scalars Resultant forces Work done and energy transfer Weight and mass Moments	Speed and acceleration Understanding d-t and v-t graphs	Newton's laws Terminal velocity Braking Momentum Forces and elasticity Pressure in fluids Floating and sinking Upthrust Changes in pressure with depth Atmospheric pressure
Knowledge/ Skills:	RP – Measuring Density RP – Specific Heat Capacity	RP – Resistance vs length of a wire RP – Component characteristics				RP – F=ma RP - Hooke's law
End points covered:	See above	See above	See above	See above	See above	See above
NC/Spec coverage:	4.3	4.2	4.4	4.5	4.5	4.5
Cross-curricular links:	Calculations – Maths Describe, explain, evaluate - English	Calculations – Maths Describe, explain, evaluate - English	The nuclear model – Chemistry Cancer – Biology	Sport Science/PE Calculations – Maths	Sport Science/PE Calculations – Maths	Sport Science/PE Calculations – Maths

			Calculations – Maths Describe, explain, evaluate - English	Describe, explain, evaluate - English	Describe, explain, evaluate - English	Describe, explain, evaluate - English
Assessments:	AP1 – End of topic test				AP2 – Synoptic exam (Paper 1 content)	
Other school intent priorities						
New experiences – broadening horizons						
Developing character – *Kind, Hard Working, Successful*						
Context specific need – diversity, inclusion; reading, literacy; mental health	Relevance to girls					
Curriculum Careers - Gatsby 4	Engineering Medicine Architecture Education Research Sustainability	Engineering Medicine Architecture Education Research Sustainability	Engineering Medicine Architecture Education Research Sustainability	Engineering Medicine Architecture Education Research Sustainability	Engineering Medicine Architecture Education Research Sustainability	Engineering Medicine Architecture Education Research Sustainability