









Curriculum Overview for Physics Year 10

<p>Half Term 1: Matter</p> <p>Substantive</p> <ul style="list-style-type: none"> <input type="checkbox"/> Name the states of matter <input type="checkbox"/> Draw the states of matter <input type="checkbox"/> Explain the properties of the states of matter (arrangement, energy, motion) <input type="checkbox"/> recall the equation for density <input type="checkbox"/> describe the difference between a chemical and physic change. <input type="checkbox"/> state what specific heat capacity is. <input type="checkbox"/> state what specific latent heat is. <p>Disciplinary</p> <ul style="list-style-type: none"> <input type="checkbox"/> Calculate Density <input type="checkbox"/> Explain the different densities of objects <input type="checkbox"/> Devise a practical to measure the density of a regular solid <input type="checkbox"/> Devise a practical to measure the density of an irregular solid <input type="checkbox"/> Devise a practical to measure the density of a liquid <input type="checkbox"/> identify on a heating/cooling curve where changes of state occur <input type="checkbox"/> 		<p>Decoding of key terminology Skim reading Etymology of key terms</p>
		<p>Energy, Matter, Solid Liquid, Gas, State, Motion Arrangement, Temperature Density, Specific heat capacity Specific latent heat, Chemical change, Physical change</p>
		<p>Recall tests Review sheet Termly exam</p>
		<p>Revision Card preparation Recall test Repetition of use of revision cards for review sheets and recall tests and for termly exams.</p>
<p>Half Term 1: Matter</p> <p>Substantive Knowledge:</p> <ul style="list-style-type: none"> <input type="checkbox"/> define half-life. <input type="checkbox"/> describe the difference between contamination and irradiation. <input type="checkbox"/> Define background radiation and where it comes from. <input type="checkbox"/> describe how the dosage of radiation can lead to different medical conditions. Triple <input type="checkbox"/> define nuclear fission and nuclear fusion. <input type="checkbox"/> describe what a chain reaction is. <input type="checkbox"/> describe how nuclear power is released. <input type="checkbox"/> describe the process of nuclear fusion. <input type="checkbox"/> describe the issues with nuclear fission <p>Disciplinary Knowledge:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Calculate half life <input type="checkbox"/> draw a half-life graph ▪ find the half life of a material from a radioactivity graph. 		<p>Decoding of key terminology Skim reading Etymology of key terms</p>
		<p>Alpha Beta Gamma Ionisation Penetration Half-life Fission (T) Fusion (T)</p>
		<p>Recall tests Review sheet Termly exam</p>
		<p>Revision Card preparation Recall test Repetition of use of revision cards for review sheets and recall tests and for termly exams.</p>

