

**SUBJECT Physics Pupil learning journey**

**Key Stage 3**

<b>Year 9 Topics</b>	P3.1 Energy & Work	P3.1 Energy & Work	P3.2 Speed & Pressure	P3.2 Speed & Pressure	P3.2 Speed & Pressure	P3.2 Speed & Pressure
<b>I am learning about:</b>	heating and thermal equilibrium:  the three types of energy transfer; conduction, convection & radiation and insulators & conductors  units (W/ kW)  comparing energy transfers and costing electricity  fuels and energy resources	moments & turning forces  how work is done, including energy transfers  speed/time graphs and distance/time graphs  the representation of a journey on a distance-time graph  relative motion: trains and cars passing one another.	pressure in gases  pressure in liquids, increasing with depth; upthrust effects, floating and sinking  pressure over SA  force multipliers & moments	particle arrangement relating it to different states. E.g. ice is a solid, less dense than liquid water.  atoms and molecules as particles	measuring the density of solids & liquids  Brownian motion in gases  diffusion in liquids and gases  how changes in energy affect temperature and motion  particle arrangement, relating to density and states of matter	what happens to particles when there is a change in temperature  internal energy stored in materials.
<b>Assessment</b>	Working Scientifically Assessed Task - Radiation A1 Assessment	Literacy Assessed Task – Distance Time Graphs	Numeracy Assessed Task – Pressure in liquids A2 Assessment	Literacy Assessed Task – Gas Pressure		A3 Assessment