

Key Concepts	Forces	Electromagnets	Energy Changes	Energy	Waves
National Curriculum Knowledge & Understanding	<ul style="list-style-type: none"> * Forces measured in newtons, measurements of stretch or compression as force is changed * Forces associated with deforming objects# stretching and squashing % springs# with rubbing and friction ! etween surfaces, with pushing things out of the way# resistance to motion of air and water * Force& e' tension linear relation# (oo)e*s +aw as a special case * , oment as the turning e- ect of a force 				

	* Wor) done and energy changes on deformation				to energy	

	<p>Before they start this topic to ensure they can apply their existing knowledge to this new content and content /pupils should now have the mathematical skills needed to plot a graph and identify the proportional relationship between force and extension Understanding relationships between forces will prepare pupils for further investigation of motion, such as acceleration and circular motion in year B and K7C1</p>	<p>is important to build upon these fundamentals and provide pupils with the knowledge and skills to investigate and describe pressure in fluids /pupils should have the appropriate mathematical skills to carry out calculations using given formula and record and describe findings from investigations</p>	<p>Build upon their existing understanding in this unit and apply principles of magnetism and electricity to electromagnetism /pupils should have the appropriate scientific skills at this age to use plotting compasses correctly and use the equipment needed to produce an electromagnet safely /pupils should have the scientific skills to plan, describe and make conclusions and predictions based on outcomes</p>	<p>Knowledge to the concepts of energy transfers and pathways /pupils should have appropriate mathematical skills in year A to calculate work done and energy</p>	<p>particles It is also important that this unit is taught after particle theory is taught in year 7 and year A Chemistry</p>	<p>vital assessment</p>

