

Previous Knowledge	Students may have some knowledge of Forces from KS2.				
Lesson Number	Title	Lesson Objectives	Content	Key words	Assessment
1	Forces	<ul style="list-style-type: none"> <li>What can forces do?</li> </ul>	<ul style="list-style-type: none"> <li>Describe the different types of forces</li> <li>Look at how forces can change how an object moves, and how forces can change the shape of an object</li> <li>Units for measurement of force</li> <li>How arrows are used to represent forces and the size of the force</li> </ul>	<ul style="list-style-type: none"> <li>Contact Force</li> <li>Non-contact Force</li> <li>Examples: Gravity, air resistance, friction, upthrust, magnetism, <b>static</b></li> </ul>	
2	Balanced and unbalanced	<ul style="list-style-type: none"> <li>What effect do balanced forces have on objects?</li> </ul>	<ul style="list-style-type: none"> <li>Forces always act in pairs</li> <li>learn about balanced and un-balanced forces and their effect on objects</li> </ul>	<ul style="list-style-type: none"> <li>Balanced and unbalanced forces</li> <li>Resultant</li> <li>Equilibrium</li> </ul>	
3	Weight and mass	<ul style="list-style-type: none"> <li>What's the difference between weight and mass?</li> </ul>	<ul style="list-style-type: none"> <li>Recognise weight as a force</li> <li>Units for measuring weight and mass</li> <li>Calculating weight</li> </ul>	<ul style="list-style-type: none"> <li>Weight and mass</li> </ul>	

4	Springs	<ul style="list-style-type: none"> <li>What is the effect of gravity on springs?</li> </ul>	<ul style="list-style-type: none"> <li>How we show the pattern when a force stretches a spring</li> <li>Hooke's law</li> </ul>	<ul style="list-style-type: none"> <li>Axes and labelling</li> <li>Divisions</li> <li>Trend</li> <li>Line of best fit</li> </ul>	Graph Plotting and Writing a Conclusion
5	Friction	<ul style="list-style-type: none"> <li>How can we control friction?</li> </ul>	<ul style="list-style-type: none"> <li>Recall the effects of friction</li> <li>Determine when friction is useful and when it is not</li> <li>Describe how friction can be increased and decreased</li> </ul>	<ul style="list-style-type: none"> <li>Friction</li> <li>Lubricants</li> <li>Air resistance</li> <li>Water resistance</li> </ul>	20 Mark Quiz
6	Pressure	<ul style="list-style-type: none"> <li>What is pressure?</li> </ul>	<ul style="list-style-type: none"> <li>Calculate pressure</li> <li>Recall units</li> <li>Describe effects of high and low pressure</li> </ul>	<ul style="list-style-type: none"> <li>Pressure</li> <li>Pascal</li> <li>Area</li> </ul>	
Where we will use these ideas again	KS4: Phys unit 5 - Forces and Motion:				
	KS4: Phys unit 3 - Particle Model:		4.3.3.1		
	KS4: Triple only, Physics Unit 5 - Forces and Motion:		4.3.3.2	4.5.5.1.1	