

# Year 13 Further Maths – Further Mechanics 1 Teacher

Topic		Ref	Ex
<b>Elastic collisions in two dimensions</b>	<b>Elastic collisions</b>	5.1	5A
	<ul style="list-style-type: none"> <li>• Solve problems involving the oblique impact of a smooth sphere with a fixed surface;</li> </ul>	5.2	5B
	<ul style="list-style-type: none"> <li>• Solve problems involving successive oblique impacts of a sphere with smooth plane surfaces</li> <li>• Solve problems involving the oblique impact of two smooth spheres</li> </ul>	5.3	5C
<b>Elastic Collisions in Two Dimensions Assessment</b>			
<b>Elastic Strings and Springs</b>	<b>Elastic strings and springs</b>	3.1	3A
	<ul style="list-style-type: none"> <li>• use Hooke’s Law to solve equilibrium problems involving elastic strings and springs;</li> </ul>	3.2	3B
	<ul style="list-style-type: none"> <li>• use Hooke’s Law to solve dynamics problems involving elastic strings and springs;</li> </ul>	3.3	3C
	<ul style="list-style-type: none"> <li>• Find the energy stored in an elastic string or spring;</li> <li>• Solve problems involving elastic energy using the principle of conservation of mechanical energy and the work-energy principle.</li> </ul>	3.4	3D
<b>Elastic Strings and Springs Assessment</b>			