Year 13 Further Maths – Further Mechanics 1 Teacher

Topic		Ref	Ex
Elastic collisions in two dimensions	**Elastic collisions** • Solve problems involving the oblique impact of a smooth sphere with a fixed surface; • Solve problems involving successive oblique impacts of a sphere with smooth plane surfaces • Solve problems involving the oblique impact of two smooth spheres	5.1 5.2 5.3	5A 5B 5C
Elastic Collisions in Two Dimensions Assessment			
Elastic Strings and Springs	**Elastic strings and springs** • use Hooke's Law to solve equilibrium problems involving elastic strings and springs; • use Hooke's Law to solve dynamics problems involving elastic strings and springs; • Find the energy stored in an elastic string or spring; • Solve problems involving elastic energy using the principle of conservation of mechanical energy and the work-energy principle.	3.1 3.2 3.3 3.4	3A 3B 3C 3D
Elastic Strings and Springs Assessment			