

Year 13 Applied Scheme of Learning

	Week	Topic	
Term 1	1	Moments	
	2		
	3		
	4		
	5	Applications of forces	
	6		
	7		
	8	Projectiles	
	9		
	10		
	11		
	12		
13	Review and catch up		
Term 2	14	Variable acceleration	
	15		
	16	Further kinematics	
	17		
	18		
	19	Review and catch up	
	20		
	21	Exam papers and in-class revision	
	22		
	23		
24			
25			
26	Exam papers and in-class revision		

Notes

Calculating moments and resultant moments. Moments in equilibrium. Centre of mass. Points of tilting. Use year 2 chapter 4 mixed exercise.

Modelling with statics. Friction and static particles. Static rigid bodies. Dynamics and connected particles. Use year 2 chapter 7 mixed exercise.

HALF TERM

Horizontal projection. Horizontal and vertical components. Projection at any angle. Deriving formulae for projectiles (e.g. maximum height).

ASSESSMENT 4 (revision, exam, review)

Use year 1 textbook review exercise.

CHRISTMAS

Functions of time. Using differentiation (maxima and minima). Using integration. Constant acceleration formulae.

SUVAT equations with vectors. Vector methods with particles (projectiles). Variable acceleration (one dimension). Differentiating and integrating vectors.

Use year 2 textbook review exercise.

HALF TERM

ASSESSMENT 5 (revision, exam, review)

Specification ref.

6.1, 9.1

8.1, 8.2, 8.3, 8.4, 8.5,
8.6, 9.1

7.3, 7.4, 7.5

7.3, 7.4

7.3, 7.4