



Mathematics Department – Lower Sixth M1 Scheme of Work

Textbook: Edexcel Mechanics M1

Unit 1: Modelling

1.1 Modelling

Unit 2: Kinematics

2.1 Position, displacement and distance

2.2 Displacement-Time Graphs

2.3 Velocity-Time Graphs

2.4 Motion with uniform acceleration

2.5 Free fall under gravity

Test on units 1 and 2

Unit 3: Vectors

3.1 Vectors in 2 dimensions

3.2 Components of a vector

3.3 Position, displacement and velocity

Unit 4: Forces

4.1 Different types of forces

4.2 Forces at a point: modelling by vectors

4.3 Modelling friction

Test on units 3 and 4

Unit 5: Newton's Laws

5.1 Newton's first and second laws of motion

5.2 More on Newton's second law

5.3 Newton's third law

Unit 6: Impulse and Momentum

6.1 Calculating impulse and momentum

6.2 Conservation of linear momentum

Test on units 5 and 6

Unit 7: Moments

- 7.1 The turning effect of a force
- 7.2 Forces at an angle
- 7.3 Equilibrium of parallel forces

Test on unit 7