

A Level Mechanics Topic Checklist

Year 1

Year 2

Mechanics Topics					
Kinematics					
Displacement, velocity and time graphs					
SUVAT – constant acceleration					
Differentiating and Integrating to get displacement, velocity, acceleration – non constant accel					
Projectiles					
Basic Forces					
Basic horizontal and vertical forces - finding the resultant and magnitude					
Basic diagonal forces resolving - finding the resultant, magnitude and angles					
Using $f = ma$ to solve basic problems such as boxes on tables etc					
Finding missing angles and forces in force diagrams					
Connected Particles					
Lifts					
Cars and Trailers					
Pulleys - Vertical					
Pulleys – Inclined planes					
Moments					
Flat plane – vertical forces					
Flat plane – diagonal forces					
Inclined plane – ladders					
Vectors					
Basic resolving on forces given in vector form - resultant and magnitude and finding angles					
SUVAT					
Differentiating and Integrating to get displacement, velocity, acceleration – non constant accel					