

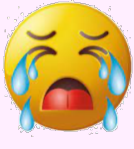



# A Level Mechanics Topic Checklist

Year 1

Year 2

Mechanics Topics				
<b>Kinematics</b>				
Displacement, velocity and time graphs				
SUVAT – constant acceleration				
Differentiating and Integrating to get displacement, velocity, acceleration – non constant accel				
Projectiles				
<b>Basic Forces</b>				
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				
<b>Connected Particles</b>				
Lifts				
Cars and Trailers				
Pulleys - Vertical				
Pulleys – Inclined planes				
<b>Moments</b>				
Flat plane – vertical forces				
Flat plane – diagonal forces				
Inclined plane – ladders				
<b>Vectors</b>				
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				