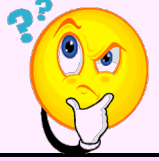
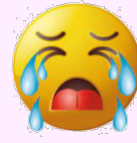


A Level Mechanics Topic Checklist

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				