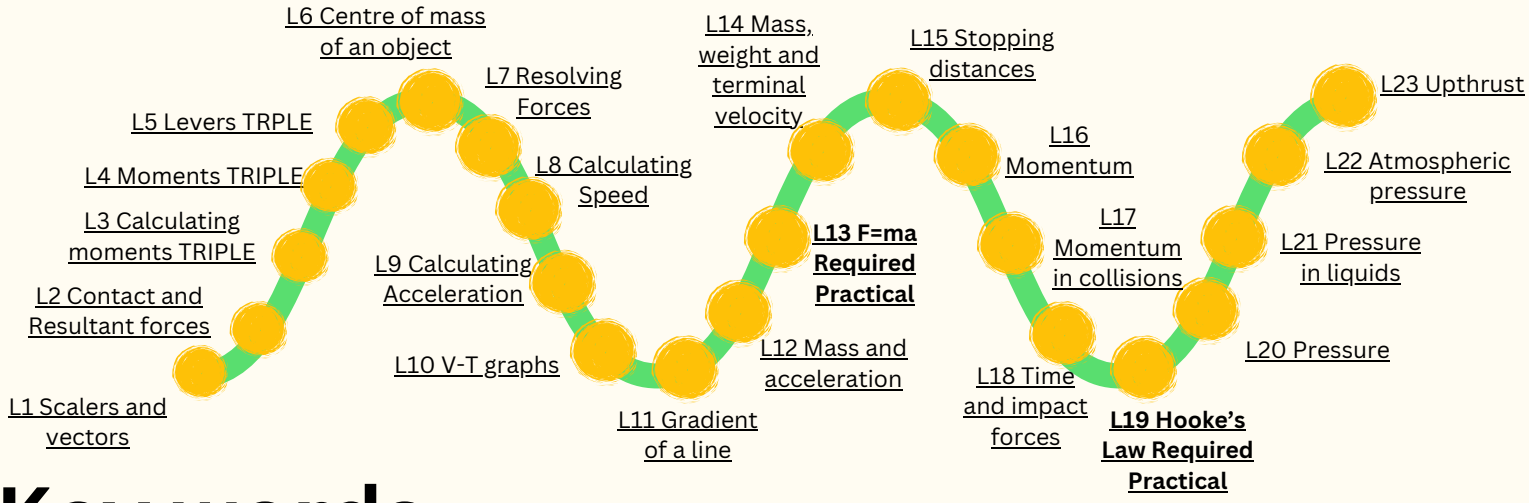
P6 Forces TRIPLE

Physics Paper 2

In the Forces unit for the triple science course, you will study in more depth how forces interact and influence the motion of objects, using vector diagrams and Newton's laws. You will cover key principles such as mass, weight, acceleration, resultant forces, and investigate motion through velocity-time and distance-time graphs. In addition, you will explore a wider range of topics including elastic and inelastic deformation, Hooke's law, levers and gears, pressure in fluids, terminal velocity, and the physics behind stopping distances and crash safety features.



Key words

- displacement
- driving force
- effort
- force multiplier
- forces
- free-body diagram
- friction]load
- magnitude
- moment
- Newtons' first Law
- Newton's second Law
- Parallelogram of forces
- scalar
- resultant force
- vector
- acceleration
- deceleration
- displacement
- gradient
- tangent
- velocity
- braking distance
- conservation of momentum
- directly proportional
- elastic
- extension
- gravitational field strength
- inertia
- limit of proportionality
- mass
- momentum
- stopping distance
- terminal velocity
- thinking distance
- weight

Revision Resources

Sample exam style questions

Cognito Topic 5 Forces

BBC Forces

Free Science Lessons

Seneca Learning

F=ma Required Practical

Hooke's Law Required Practical