



Revision

Retrieval, keyword definitions and equation practice.

SCAN ME



Final assessment

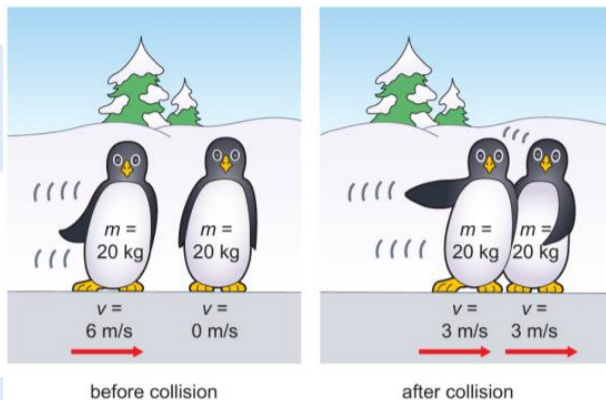


Review of learning

Apply:
 SP7 Gravity and orbits / circular motion
 SP9 Objects affecting each other, vector diagrams, rotational forces
 SP15 Forces and matter (upthrust)
 16+ Centre of mass and gravity
 Resolving forces
 Resultant forces
 Torque of a couple

Crash hazards

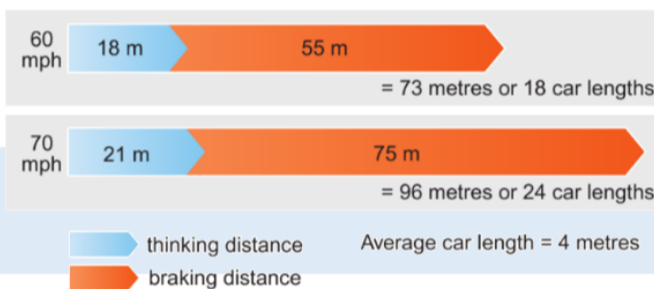
How can you use momentum to calculate the forces involved in crashes?



total momentum before and after a collision is the same

Stopping distances

What are the factors that affect the stopping distances of a vehicle?



Momentum

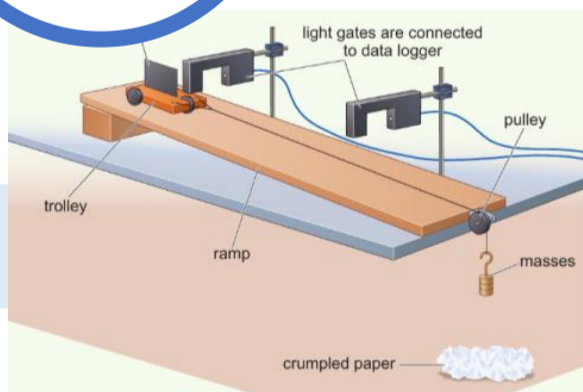
What happens to the momentum in collisions?

Newton's third law

How do objects affect each other when they collide?

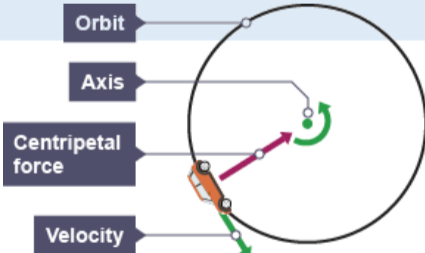
Investigating acceleration

CORE PRACTICAL: Investigate the relationship between force, mass and acceleration



Newton's second law

What are the factors that affect the acceleration of an object



An object moving in a circle has changing velocity

Mass and weight

What is the difference between mass and weight?

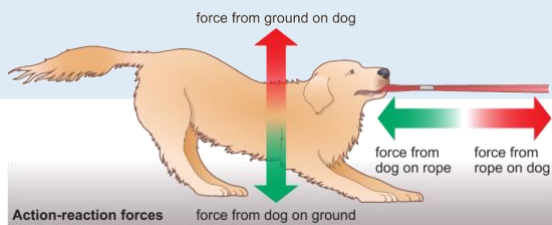
Newton's first law

What happens to the motion of an object when the forces on it are balanced / unbalanced?

LESSON 1

Resultant force

How to represent and calculate the resultant forces acting upon an object



Action-reaction forces

Make sure you can write definitions for these key terms.

Key terms

Resultant force, Newton's laws, centripetal force, mass, weight, gravitational field strength, air resistance, acceleration, inertial mass, reaction force, momentum, conservation of momentum, stopping distance, kinetic energy, work done, crash hazards



Retrieve:
 KS2 Introduction to forces (contact/non-contact)
 P1.1 Forces (mass and weight)
 P1.1.5 Balanced forces
 P1.4 Space (forces at a distance)
 P2.1.6 Magnetic forces
 P2.3 Turning forces
 SP1 Motion