PHYSICS: SP8-9 Energy and Forces

CHURCH STRETTON SCHOOL

SCAN ME

Assessment = ★

Final assessment

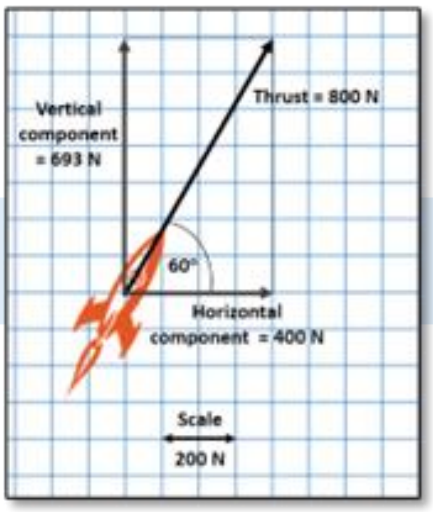
★

Review of learning

Apply:
SP11 Static electricity
SP12 Electrical Power
SP13 magnetic fields
16+ Work energy and power
Mechanics and materials

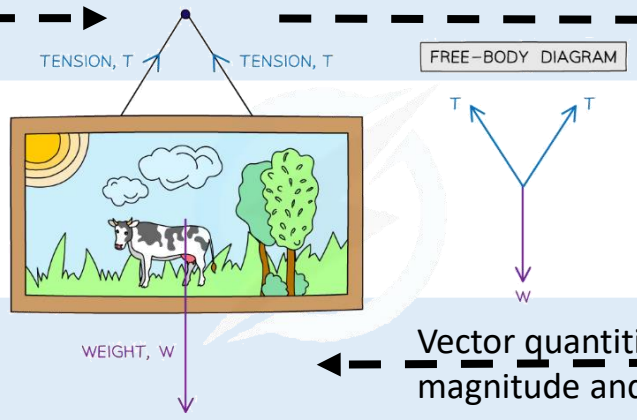
Revision

Retrieval, keyword definitions and equation practice.

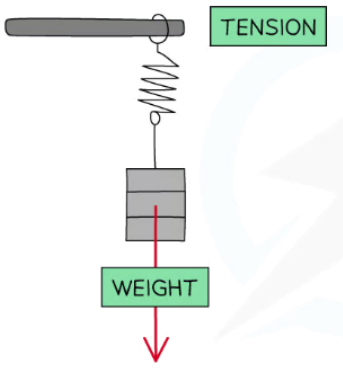


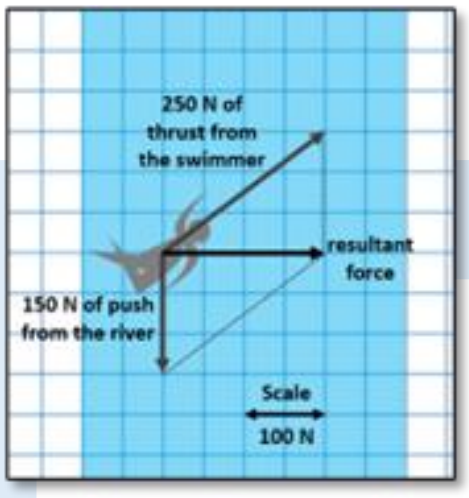
Rotational forces

How can you use moment calculations to work out if two rotational forces will balance?



Vector quantities have both magnitude and direction

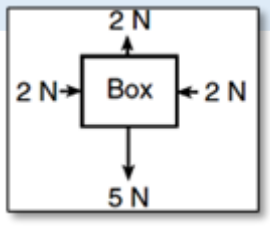




Vector diagrams [H]

How do all the forces on a single body combine to affect it?

A free body diagram shows all the forces acting on an object



Objects affecting each other

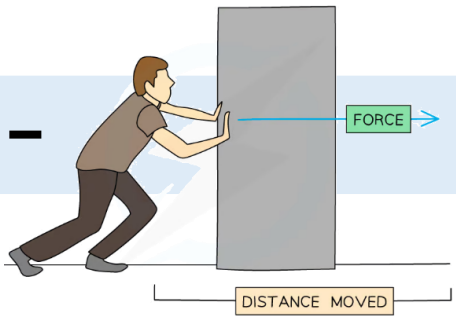
How can objects affect each other without touching

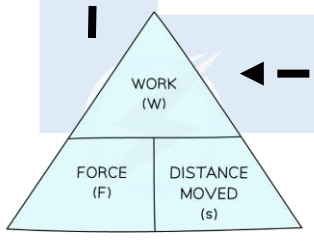
The unit of power: 1 W = 1 joule per second

LESSON 1

Work and power

How can the energy of a system be changed?





Key terms

Make sure you can write definitions for these key terms.

energy, joules, kilojoules, work done, power, watts, contact force, non-contact force, reaction force, force field, electric field, vectors, free body diagrams, scale diagrams, resultant forces, component forces

Retrieve:
KS2 Forces: magnetic forces can act at a distance
P1.1.1 Forces (gravity)
P1.1.4 Forces at a distance
P1.1.5 Balanced and unbalanced
P1.2.2 sound and energy transfer
P1.4.2 gravity
P2.1.1 Charging up
P2.1.6 magnetic fields
P2.2.27 Energy and power
P2.2.8 Work, energy and machines
P2.3.6 Rotational forces
SP1 Scalar and vector quantities
SP2 Mass and weight
SP3 Conservation of energy