The parallelogram of forces

Los:

* What is parallelogram of forces and how to use it
* How to draw scale diagrams of parallelogram forces
* How to find resultant forces using a parallelogram of forces

What is a parallelogram

2 pairs of parallel sides

Opposite and angles are equal

Angles are not 90 degrees

The parallelogram of forces is a scale diagram of two force vector

The parallelogram of forces is used to find the resultant force

**See diagrams in book**

Resolution of forces

Los:

* What is meant by resolution of a force and how to resolve it
* Forces on an object at equilibrium
* How to work out whether an object is in equilibrium

**See diagrams in book**

Practical

Method:

* Measure the weight W of the trolley and the force F parallel to the slope using the newton meter
* Add masses to the trolley and measure F
* Repeat the experiment at different inclines