

Motion and types of force

Complete this Concept Review so you can keep a record of what you have learned.

Definitions

- A force is _____

- Unit of measurement: _____ Symbol: _____
- 1 N = _____
- Mass is _____

- Unit of measurement: _____ Symbol: _____
- Weight is _____

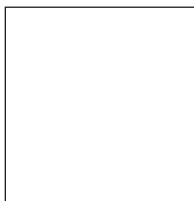
- Unit of measurement: _____ Symbol: _____
- Friction is _____

- The resultant force is _____

- The equilibrium of two forces is _____

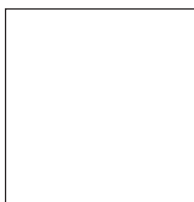
Mathematical formulas and units of measurement

Formula for calculating the average speed of an object:



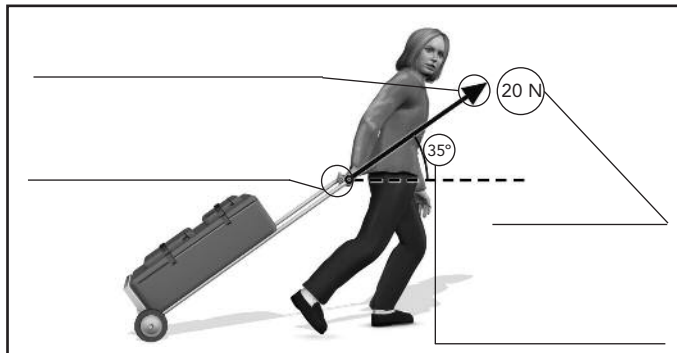
where _____

Formula expressing the relationship between weight, gravitational force and mass:



where _____

Representing force with an arrow



Intensity of the gravitational field

- At the Earth's surface:

- At the Moon's surface:

Changes in motion by a force

Direction of the force	Effect on motion
Same direction as the motion	<ul style="list-style-type: none"> _____ _____ _____
Opposite direction to the motion	<ul style="list-style-type: none"> _____ _____ _____
Perpendicular direction to the motion	<ul style="list-style-type: none"> _____ _____

Resultant force

Forces exerted	Example	Result
Two forces exerted horizontally and in the same direction		The two forces are added together.
_____		_____
_____		_____

