



Collisions: Physics of Collisions

Matching Cards

This activity can be done by individual students or pairs of students. There are ten pairs of cards which need to be matched together, so that the start of the sentence is matched to the end of the sentence to complete a correct statement about the material seen in the video.

These cards need to be photocopied, laminated and then cut out into 20 separate cards and then placed in an envelope for students to match up.

Car crashes, rocket crashes, crash test dummies and bouncing tennis balls are all examples of ...	... but the air resistance on Earth, due to its atmosphere, means the hammer will land before the feather.
When a light bulb is turned on ...	... elastic potential energy is transformed to kinetic energy and gravitational potential energy.
An elastic collision is when ...	... kinetic energy is transferred to other forms of energy such as heat.
Velocity, displacement and acceleration are vector quantities because ...	... gravitational potential energy is transferred to kinetic energy.
Speed and distance ...	... energy cannot be created or destroyed but it is transferred from one form to another.
The conservation of energy states that ...	... are examples of scalar quantities, as they have a magnitude but no direction associated with them.
When a rock falls from a high cliff top onto a beach ...	... they have a magnitude and a direction associated with them.
Inelastic collisions occur when ...	... there is no loss of kinetic energy during the collision.
When a person jumps up and down on a trampoline ...	... electrical energy is transferred to electromagnetic waves which we call light waves.
A feather and a hammer will hit the surface of the moon at the same time when dropped ...	... types of collisions.

