

Momentum

Key words

mass, momentum, force, time

mass = the amount of substance in a body

momentum = see below

force = a push or pull that acts on an object due to the interaction with another object

time = how long to move from point A to B

The Science Bit

- Momentum is a term that describes **the strength or force of a moving object** (mass in motion).
- The momentum tends to keep it moving in the same direction. It is difficult to change the direction of movement of an object with a lot of momentum.
- A slow moving or lightweight object has **less** momentum. A fast moving or heavy object will have **more** momentum.

How to take it further

Find a selection of different sized balls. Discuss dropping them from the same height onto a hard surface. Which do you think would fall the fastest and why? Think about the effect momentum would have on them. Were your predictions right?



Fun Cycling Facts and Information

- Damien Hirst designed the world's most expensive bike Trek Madone, or the Butterfly Bike which was auctioned for \$500,000 at Sotheby's.
- The world's longest bike was 135 feet and 10.7 inches long
- The first bicycles were made out of wood with iron wheels (imagine how comfortable that would have been to ride!)
- On a bicycle, you can travel three times faster than you can walk, for the same amount of energy.

Bicycles turn energy created by our bodies into kinetic energy. Kinetic energy (moving energy).

That's why bikes are so clever: they make good use of the most powerful muscles in our body.

