

Forces - Speed KEY LEARNING

A journey takes less time if your speed is fast.



You travel a large distance if your speed is fast.

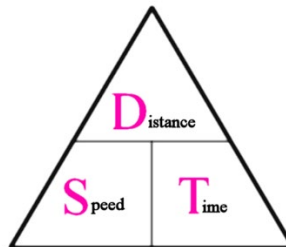


Calculating speed - All four of these show the same thing!

$$\text{speed} = \text{distance}/\text{time}$$

$$\text{speed} = \frac{\text{distance}}{\text{time}}$$

$$\text{speed} = \text{distance} \div \text{time}$$



Keywords

Speed: How much distance is covered in how much time.

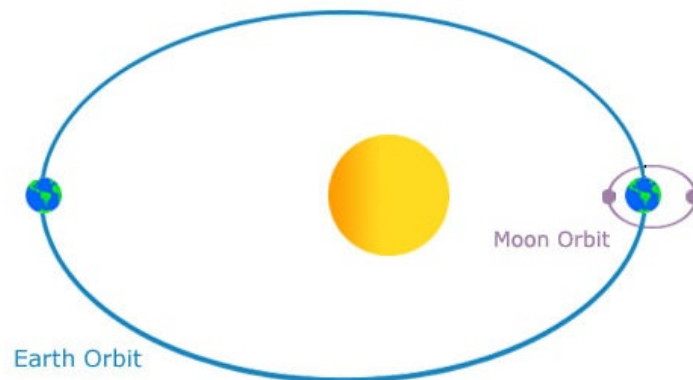
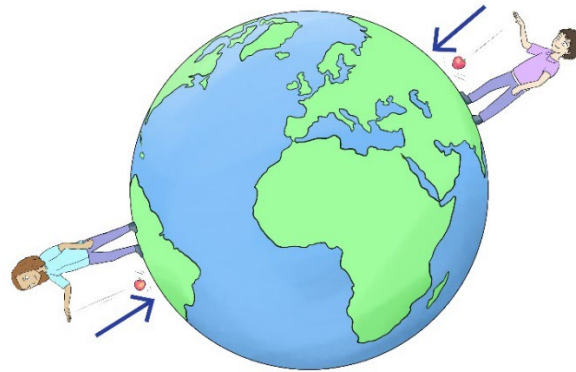
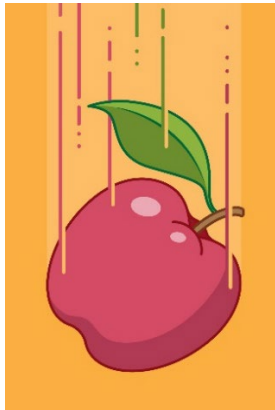
Average speed: The overall distance travelled divided by overall time for a journey.

Forces - Gravity KEY LEARNING

Gravity is a non-contact force.

Non-contact force: One that acts without direct contact.

Gravity is an attractive force. It acts between all objects that have mass.



All objects produce a gravitational force. This is very large for huge masses such as planets.

Gravity holds planets and moons in orbit around larger planets and stars.

Key Learning Questions	Year 7 Forces
Which speed is fastest? a. 10m/s b. 10m/min c. 10cm/s	10m/s
Which speed is fastest? a. 100cm/s b. 10m/s c. 500cm/min	10m/s
Complete this equation: Speed = <input type="text"/> ÷ <input type="text"/>	Distance ÷ Time
We travel 100m in 5s. What is our average speed?	100m ÷ 5s = 20m/s
We travel 12m in 3s. What is our average speed?	12m ÷ 3s = 4m/s
What force keeps Earth orbiting the Sun?	Gravity