Science Knowledge Organiser

Glossopdale

Y7 Forces: Speed

Key words

	Acceleration	How quickly speed increases or decreases.
	Average speed	The overall distance travelled divided by overall time for a journey
	Force	An interaction that, when unbalanced, causes a change e.g acceleration
	Speed	How much distance is covered in how much time.

I'm accelerating because

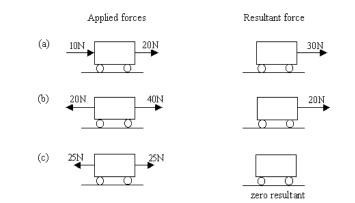
Key Equation

Speed $(km/s) = \frac{distance (km)}{time (s)}$

Speed $(m/s) = \underline{distance (m)}$ time (s)

The higher the speed of an object, the shorter the time taken for a journey.

If the overall, resultant force on an object is non-zero, its motion changes and it slows down, speeds up or changes direction.

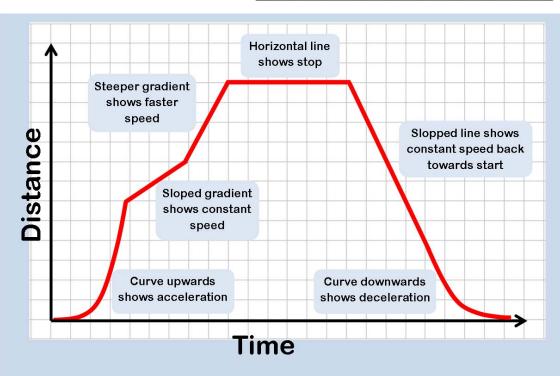


If there is a resultant force it's motion is changing:

- Speed
- Direction

No resultant force means no change of current speed or direction.

Distance-time graphs



I'm accelerating because