

Sci in the forest Speed Year 7

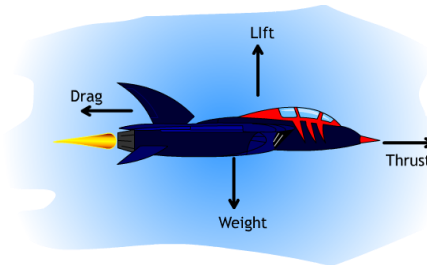
End point 1 : Identify the resultant forces on an object

A force can be a push or a pull, you can not see forces, you can only see what they do.

When a force is applied to an object it can change the:

- speed
- Direction
- Shape

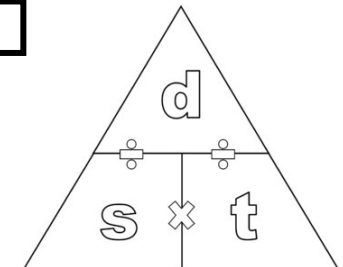
The unit of force in the Newton (N).



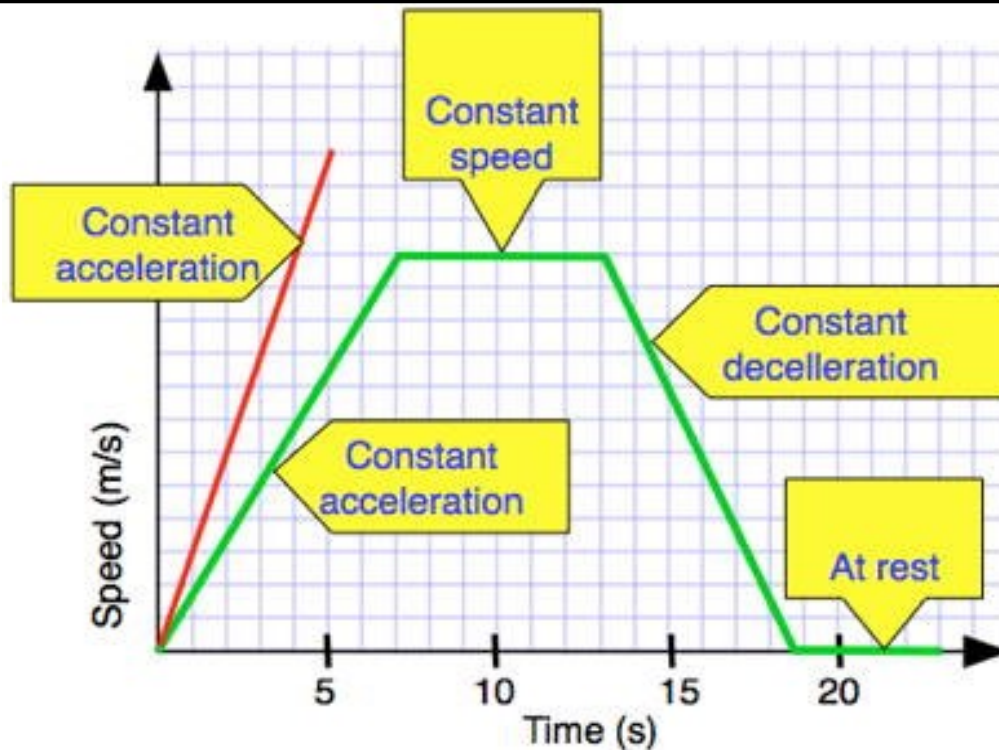
| Key Term | Definition |
|--------------|---|
| Gradient | How steep the line on a graph is. On a speed time graph hoe fast the object is travelling |
| Stationary | Not moving |
| Acceleration | The speed on a object is increasing |
| Mass | The amount of particles in a substance |
| Moment | The turning effect of a force |
| Newton | The unit of force. |

End point 2 : Use Speed = distance/time formula

$$\text{Speed (m/s)} = \text{Distance (m)} / \text{Time (s)}$$



End points 3 and 4 : Draw distance time graphs and Interpret distance time graphs



End point 5 : Have an understanding of acceleration of an object

Row 1: Speeding up
 I'm accelerating because I'm **speeding up**.

Row 2: Slowing down
 I'm accelerating because I'm **slowing down**.

Row 3: Changing directions
 I'm accelerating because I'm **changing directions**.