These terms describe the **motion** of a body:

- 1. Stationary
- 2. Constant speed or velocity
- 3. Accelerating
- 4. Decelerating

Remember: Velocity is the speed in a specific direction.

Motion is described using distance-time graphs and velocity-time graphs. It is important to work out which type it is before you start to describe the graph as the shapes represent different things on each type. **Look for the labelling on the axes to help recognise the graph.**

Motion	Distance-time	Velocity-time
Stationary		
Constant speed		
Acceleration		
Deceleration		
Calculating speed (or velocity)		
Speed (m/s) = <u>distance (m)</u> time (s)		

Calculating acceleration (or deceleration)

Acceleration $(m/s^2) = \frac{change in velocity (m/s)}{time (s)}$

