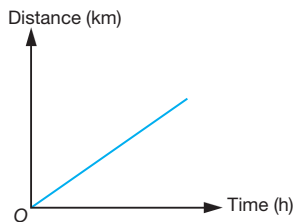


GRAPHS OF MOTIONS

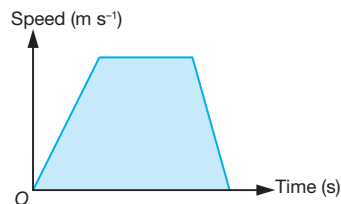
Distance-Time Graphs

The gradient of a distance-time graph is the rate of change of distance with respect to time, i.e. speed.



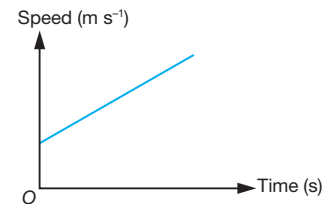
Speed-Time Graphs

The area under a speed-time graph is the product of speed and time, i.e. distance.



Speed-Time Graphs

The gradient of a speed-time graph is the rate of change of speed with respect to time, i.e. acceleration.



Average Speed

$$\text{Average speed} = \frac{\text{Total distance travelled}}{\text{Total time taken}}$$