1	A <b>scalar</b> quantity has only a <b>magnitude</b> but a <b>vector</b> quantity has both a <b>magnitude</b> and a <b>direction</b> .
2	Anexample of a scalar quantity is <b>speed</b> and an example of a vector quantity is <b>velocity</b> (which is speed in a given direction).
3	The standardunit for <b>time</b> is seconds <b>(s)</b>
4	The standard unit for <b>distance</b> is metres <b>(m)</b>
5	Speed = distance ÷time
6	The standard units for both <b>speed</b> and <b>velocity</b> are <b>m/s</b>
7	A typical walking speed is 1.5 m/s
8	A typical running speed is 3 m/s
9	A typical cycling speed is 6 m/s
10	On a <b>distance—time</b> graph, a <b>flat line</b> tells you that the object is not moving ( <b>stationary</b> ). A steeped, straight line tells you that the object is travelling a constant or steady speed.
11	To calculate the <b>speed</b> or velocity from a <b>distance-time graph</b> you need to calculate the <b>gradient</b> of the line.
	Acceleration is the rate of change of velocity andthe standard
12	unit for acceleration is m/s2  Acceleration = (final velocity-initial velocity) ÷time taken
13	
14	Accelerationcan also be calculated using the equation Final velocity squared –initial velocity squared= 2 x acceleration x distance V2–U2= 2ax
15	A flat, straight line on a velocity—time graph tells you that the object is travelling at a constant or steady speed. A steeped, straight line tells you that the object is accelerating.
16	To calculate the distance travelled from a velocity—time graph you need to calculate the area under the graph.

