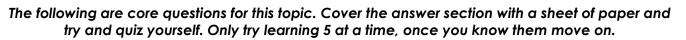




## **CORE** Questions



	1	
1	Put into an equation: speed, distance and time.	Speed = Distance / time
2	Calculate the speed of a man jogging 4m every 2 seconds.	S = D/t S = 4/2 S = 2m/s
3	What are the standard units for measuring speed?	m/s
4	On a distance- time graph. What would the labels of the x and y axis be?	X axis - Time, Y - Axis Distance
5	Sketch a distance time graph where a person walks at a constant speed and then stops.	Correctly labelled axis (x-time, y-distance), straight diagonal line from origin and straight horizontal line.
6	What does a straight horizontal line represent on a distance time graph?	That the object is stationary
7	What does acceleration mean?	Increasing speed.
8	Indentify three ways a force can effect the motion of an object.	Make it move or stop moving, change its direction, increase or decrease its speed.
9	True or False. If an object is moving and no forces act on it, it will eventually stop.	False. It will remain moving at the same speed.
10	True or False. IF an object is at rest it will remain at rest unless a force acts on it.	True.
11	What is the standard unit for a force?	Newtons, N
12	What is the standard unit for distance?	Meters, m
13	Convert 10cm into meters.	0.1m
14	What force always acts downwards on an object?	Weight
15	A student fails to stop a stopwatch on time. Is this known as random error or zero error?	Random Error
16	A student measures the time it takes a car to drive a certain distance at a constant speed three times. Suggest why.	This allows him to spot any mistakes and get a more accurate result by calculating a mean.
17	True or False. If you find an anomalous result, you should include it when calculating a mean.	False. You should not include it in your mean.
18	How is pressure created by gases and liquids?	Particles collide with surfaces exerting a force.
19	In what directions does fluid pressure occur?	All directions.
20	Describe why pressure increases as depth in water increases.	There are more water particles exerting more pressure as the depth increases.
21	Describe why pressure decreases as altitude increases.	There are less particles as the altitude increases decreasing pressure.

8