CP1 Motion

CP1a Vectors and scalars

Step	Learning outcome	Had a look	Nearly there	Nailed it!
4th	Describe the difference between weight and mass.	☐	☐	☐
7th	Explain the difference between a vector and a scalar quantity.	☐	☐	☐
7th	Describe the difference between displacement and distance.	☐	☐	☐
7th	Describe the difference between velocity and speed.	☐	☐	☐
6th	Define the terms: acceleration, force, momentum, energy.	☐	☐	☐

CP1b Distance/time graphs

Step	Learning outcome	Had a look	Nearly there	Nailed it!
7th	Recall and use equations relating distance, speed and time.	☐	☐	☐
7th	Describe how speed can be measured in a school laboratory.	☐	☐	☐
5th	Recall typical speeds for walking, running, cycling and travelling by car.	☐	☐	☐
6th	Interpret distance/time graphs (including recognising what the steepness of the line tells you).	☐	☐	☐
7th	Represent journeys on distance/time graphs.	☐	☐	☐
8th	Determine speed from the gradient of a distance/time graph.	☐	☐	☐

CP1c Acceleration

Step	Learning outcome	Had a look	Nearly there	Nailed it!
6th	Recall the equation relating acceleration, velocity and time.	☐	☐	☐
8th	Use the equation relating acceleration, velocity and time.	☐	☐	☐
6th	Recall the equation relating acceleration, velocity and distance.	☐	☐	☐
8th	Use the equation relating acceleration, velocity and distance.	☐	☐	☐
6th	Recall the acceleration in free fall.	☐	☐	☐
8th	Estimate the magnitudes of some everyday accelerations.	☐	☐	☐

CP1d Velocity/time graphs

Step	Learning outcome	Had a look	Nearly there	Nailed it!
	Represent journeys on velocity/time graphs.	☐	☐	☐
	Interpret velocity/time graphs qualitatively.	☐	☐	☐
	Calculate uniform accelerations from the gradients of velocity/time graphs.	☐	☐	☐
	Determine the distance travelled from the area under a velocity/time graph.	☐	☐	☐