CP1 Motion

CP1a Vectors and scalars
Describe the difference between weight and mass.
Explain the difference between a vector and a scalar quantity.
Describe the difference between displacement and distance.
Describe the difference between velocity and speed.
Define the terms: acceleration, force, momentum, energy.
CP1b Distance/time graphs
Recall formulae relating distance, speed and time.
Use formulae relating distance, speed and time.
Recall typical speeds for walking, running, cycling and travelling by car.
Interpret distance/time graphs (including recognising what the steepness of the line tells you).
Represent journeys on distance/time graphs.
Determine speed from the gradient of a distance/time graph.
CP1c Acceleration
Recall the formula relating acceleration, velocity and time.
Use the formula relating acceleration, velocity and time.
Recall the formula relating acceleration, velocity and distance.
Use the formula relating acceleration, velocity and distance.
Recall the acceleration in free fall.
Estimate the magnitudes of some everyday accelerations.
CP1d Velocity/time graphs
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.