

Chapter 3 – Horizontal Linear Motion

Learning Grid

Horizontal Linear Motion	Questions	Answers			
	Define displacement and include its SI unit.				
	Define velocity and include its SI unit.				
	Define acceleration and include its SI unit.				
	What are the SI units of (i) mass (ii) length (iii) time?				
	Derive the four equations of motion.	1.	2.	3.	4.

Horizontal Linear Motion	Questions	Answers	
	Describe how to measure velocity and acceleration in the lab. You may include a diagram.		
	Draw: (i) a distance–time graph of an object moving at a constant velocity then coming to rest. (ii) a velocity–time graph of an object accelerating, moving at a constant velocity then coming to rest.	(i)	(ii)
	What is a vector quantity? Give three examples.		
	What is a scalar quantity? Give three examples.		
	Draw the vector sum of two perpendicular vectors of lengths 3 and 4 units. Show your working as to how you determine the magnitude and direction of the resultant vector.		

