

Chapter 4 – Vertical Linear Motion

Learning Grid

Vertical Linear Motion	Questions	Answers
	Define weight and give its SI unit.	
	Define acceleration due to gravity on Earth.	
	What is the value for acceleration due to gravity on Earth?	
	Why is the acceleration due to gravity different on different points on the Earth's surface (e.g. Mount Everest and below sea level)?	
	Derive the equation for a freefalling object, $s = \frac{1}{2}gt^2$	

Vertical Linear Motion	Questions	Answers
	State the equation for a pendulum, including what each variable stands for.	
	Describe how to determine g in the lab using the freefall method (include labelled diagrams in your description).	
	Describe how to determine g in the lab using the pendulum method (include labelled diagrams in your description).	