

	Subject	Physical Science
	Grade	12
	Topic	2 – Vertical projectile

MULTIPLE CHOICE

- If the momentum of an object is doubled, then its kinetic energy is ...
 - halved.
 - doubled.
 - three times greater.
 - four times greater. FEB 2014 DBE 2.3
- A ball is thrown vertically upwards. Which ONE of the following physical quantities has a non-zero value at the instant the ball changes direction?
 - Acceleration
 - Kinetic energy
 - Momentum
 - Velocity

ONE WORD (Definitions)

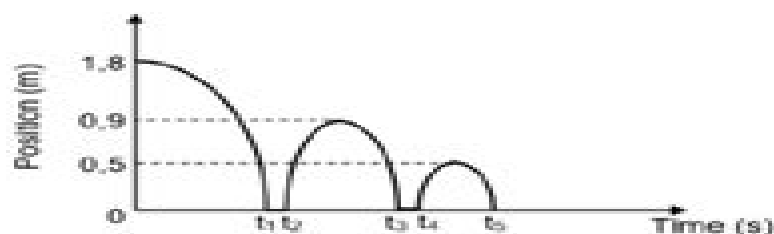
Give one word or term for the following description

- motion during which the only force acting on an object is the gravitational force.
- an object which the only force acting on an object is the gravitational force

LONGER QUESTIONS

Question 1

A ball of mass 0,5 kg is projected vertically downwards towards the ground from a height of 1,8 m at a velocity of $2 \text{ m} \cdot \text{s}^{-1}$. The position-time graph for the motion of the ball is shown below.



- What is the maximum vertical height reached by the ball after the second bounce?
- Calculate the magnitude of the time t_1 , indicated on the graph?
- Calculate the velocity with which the ball rebounds from the ground during the first bounce.

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