



# Chapter 2

## Accelerated Motion

2.1.1 Define and use distance, displacement, speed, velocity and acceleration

### 2.1 The meaning of acceleration

**Acceleration** is the rate of change of velocity; the unit is

### 2.2 Calculating acceleration

To calculate acceleration you need to know:

- Initial velocity, **u**
- Final velocity, **v**
- Time taken for increase or decrease in velocity, **t**

### 2.3 Units of acceleration

$$a = (v - u) / t$$

OR

$$a = \Delta v / \Delta t$$

Units of a:  $\text{ms}^{-2}$

Acceleration is always given in the standard SI unit of

2.1.1 Define and use distance, displacement, speed, velocity and acceleration

## Quick check!

1. A car accelerates from a standing start and reaches a velocity of  $18 \text{ ms}^{-1}$  after 6.0 s.



# Chapter 3 Accelerated Motion Quia

**Michael Hoelscher**



### **Chapter 3 Accelerated Motion Quia:**

Honoré Fabri and the Concept of Impetus: A Bridge between Conceptual Frameworks Michael Elazar, 2011-05-20 This book discusses the impetus based physics of the Jesuit natural philosopher and mathematician Honor Fabri 1608 1688 a senior representative of Jesuit scientists during the period between Galileo s death 1642 and Newton s Principia 1687 It shows how Fabri while remaining loyal to a general Aristotelian outlook managed to reinterpret the old concept of impetus in such a way as to assimilate into his physics building blocks of modern science like Galileo s law of fall and Descartes principle of inertia This account of Fabri s theory is a novel one since his physics is commonly considered as a dogmatic rejection of the New Science not essentially different from the medieval impetus theory This book shows how New Science principles were taught in Jesuit Colleges in the 1640s thus depicting the sophisticated manner in which new ideas were settling within the lion s den of Catholic education

**The Civil Engineer and Architect's Journal** ,1848    **Civil Engineer and Architect's Journal** ,1848    **The Science of Mechanics in the Middle Ages** Marshall Clagett,1961    **Studies in Philosophy and the History of Philosophy** John Kenneth Ryan,1985

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