

# PHYSICS GRADE 10

## CHAPTER ONE LINEAR MOTION

### Introduction:

Study of motion is divided into two:

1. Kinematics
2. Dynamics

In kinematics forces causing motion are disregarded while dynamics deals with motion of objects and the forces causing them.

### A. Displacement

Distance covered by a body in a specified direction is called displacement. It is denoted by letter 's' and has both magnitude and direction. Distance is the movement from one point to another. The SI unit for displacement is the metre (m).

### B. Speed

This is the distance covered per unit time.

**Speed** = distance covered/ time taken. (Distance is a scalar quantity since it has magnitude only. The SI unit for speed is metres per second (m/s or ms<sup>-1</sup>).

**Average speed** = total distance covered/total time taken

Other units for speed used are km/h.

(Examples)

1. A body covers a distance of 20m in 4 seconds, it rests for 10 seconds and finally covers a distance of 50m in 10 seconds. Calculate the average speed.

**Solution**

Total distance covered = 20 + 50 = 70m

Total time taken = 4 + 10 + 10 = 24 seconds

Therefore average speed = 70/24 = 2.9m/s

2. Calculate the distance in metres covered by a body moving with a uniform speed of 100 km/h in 20 seconds.

**Solution**

Distance covered = speed × time

$$= 100 \times \frac{20}{3600} = 0.555 \text{ km}$$

$$= 555 \text{ m}$$

$$= 0.555 \text{ km}$$

3. Calculate the time in seconds taken a body moving with a uniform speed of 100 km/h to cover a distance of 2.000 km?

**Solution**

Speed: 100 km/h =  $100 \times \frac{1000}{3600} = 27.78 \text{ m/s}$

Time = distance/speed

$$= \frac{2000}{27.78} = 72 \text{ s}$$

$$= 72 \text{ s}$$

### C. Velocity

This is the change of displacement per unit time. It is a vector quantity.

**Velocity** = change in displacement/total time taken

The SI unit for velocity is m/s

(Examples)

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overall economy and balance of trade of the United States through the sales of aircraft throughout the world NASA's contributions have included advanced flight control systems de icing devices thrust vectoring systems wing fuselage drag reduction configurations aircraft noise reduction advanced transonic airfoil and winglet designs and flight systems Each of these contributions was successfully demonstrated through NASA flight research programs Equally important the aircraft industry would not have adopted these and similar advances without NASA flight demonstration on full scale aircraft flying in an environment identical to that which the aircraft are to operate in other words flight research Flight research is a tool not a conclusion It often informs simulation and modeling and wind tunnel testing Aeronautics research does not follow a linear path from simulation to wind tunnels to flying an aircraft The loss of flight research capabilities at NASA has therefore hindered the agency's ability to make progress throughout its aeronautics program by removing a primary tool for research Recapturing NASA's Aeronautics Flight Research Capabilities discusses the motivation for NASA to pursue flight research addressing the aspects of the committee's task such as identifying the challenges where research program success can be achieved most effectively through flight research The report contains three case studies chosen to illustrate the state of NASA ARMD These include the ERA program and the Fundamental Research Program's hypersonics and supersonics projects Following these case studies the report describes issues with the NASA ARMD organization and management and offers solutions In addition the chapter discusses current impediments to progress including demonstrating relevancy to stakeholders leadership and the lack of focus relative to available resources Recapturing NASA's Aeronautics Flight Research Capabilities concludes that the type and sophistication of flight research currently being conducted by NASA today is relatively low and that the agency's overall progress in aeronautics is severely constrained by its inability to actually advance its research projects to the flight research stage a step that is vital to bridging the confidence gap NASA has spent much effort protecting existing research projects conducted at low levels but it has not been able to pursue most of these projects to the point where they actually produce anything useful Without the ability to actually take flight NASA's aeronautics research cannot progress cannot make new discoveries and cannot contribute to U.S. aerospace preeminence

Scientific and Technical Aerospace Reports, 1984

**World Congress on Medical Physics and Biomedical**

**Engineering September 7 - 12, 2009 Munich, Germany** Olaf Dössel, Wolfgang C. Schlegel, 2010-01-04 Present Your Research to the World The World Congress 2009 on Medical Physics and Biomedical Engineering the triennial scientific meeting of the IUPESM is the world's leading forum for presenting the results of current scientific work in health related physics and technologies to an international audience With more than 2 800 presentations it will be the biggest conference in the fields of Medical Physics and Biomedical Engineering in 2009 Medical physics biomedical engineering and bioengineering have been driving forces of innovation and progress in medicine and healthcare over the past two decades As new key technologies arise with significant potential to open new options in diagnostics and therapeutics it is a

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