

# 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.

### I. Displacement

*Distance moved 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).

### II. 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 10m in 4 seconds. It rests for 10 seconds and finally covers a distance of 50m in 60 seconds. Calculate the average speed.

*Solution*

Total distance covered = 10 + 50 = 100m

Total time taken = 4 + 10 + 6 = 20 seconds

Therefore average speed = 100 / 20 = 5m/s

2. Calculate the distance in metres covered by a body moving with a uniform speed of 180 km/h in 30 seconds.

*Solution*

Distance covered = speed \* time

$$= 180 * 1000 / 60 * 60 = 50 \text{ m/s}$$

$$= 50 * 30$$

$$= 1,500 \text{ m}$$

3. Calculate the time in seconds taken a by body moving with a uniform speed of 360km/h to cover a distance of 3,000 km?

*Solution*

Speed: 360 km/h = 360 \* 1000 / 60 \* 60 = 100m/s

Time = distance / speed

$$3000 * 1000 / 100$$

$$= 30,000 \text{ seconds.}$$

### III. Velocity

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

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

The SI units for velocity are m/s

Examples

# Physical Science Grade 10 Paper1

**VM Jensen**



## Physical Science Grade 10 Paper1:

**Physical Science** Mr. Rohit Manglik, 2024-07-15 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels

*Teaching Reading Comprehension to English Learners in Secondary Schools: A Research-Based Approach* Cekiso, Madoda, Olifant, Florence, Mokhtari, Kouider, 2025-04-23 Teaching reading comprehension to English learners ELs in secondary schools presents unique challenges as these students must navigate the complexities of academic texts and the intricacies of language acquisition Effective instruction requires a research based approach that considers the diverse linguistic cultural and cognitive backgrounds of these learners Recent studies highlight the importance of integrating strategies that build both language proficiency and content knowledge essential for helping ELs develop the skills needed to comprehend complex materials Fostering metacognitive awareness through strategies like summarizing questioning and making connections can empower students to become active and strategic readers This approach recognizes the need for a supportive inclusive classroom environment that encourages language development while promoting academic achievement in content areas Further research may help educators provide English learners with the tools to thrive as capable readers in secondary school

*Teaching Reading Comprehension to English Learners in Secondary School A Research Based Approach* explores various aspects of teaching reading comprehension to English Second Language ESL learners in secondary schools It examines current challenges and evidence based strategies in reading comprehension This book covers topics such as language learning reading strategies and teacher training and is a useful resource for academicians researchers and scientists

X-kit Fet G10 Mathematics , **Resources in Education** , 2000-10 *Occupations of Federal White-collar Workers* , 1960 *Resources for Teaching Elementary School Science* National Science Resources Center of the National Academy of Sciences and the Smithsonian Institution, 1996-04-28 What activities might a teacher use to help children explore the life cycle of butterflies What does a science teacher need to conduct a leaf safari for students Where can children safely enjoy hands on experience with life in an estuary Selecting resources to teach elementary school science can be confusing and difficult but few decisions have greater impact on the effectiveness of science teaching Educators will find a wealth of information and expert guidance to meet this need in *Resources for Teaching Elementary School Science A completely revised edition of the best selling resource guide Science for Children Resources for Teachers* this new book is an annotated guide to hands on inquiry centered curriculum materials and sources of help in teaching science from kindergarten through sixth grade Companion volumes for middle and high school are planned The guide annotates about 350 curriculum packages describing the activities involved and what students learn Each annotation lists recommended grade levels accompanying materials and kits or suggested equipment and ordering information These 400

entries were reviewed by both educators and scientists to ensure that they are accurate and current and offer students the opportunity to Ask questions and find their own answers Experiment productively Develop patience persistence and confidence in their own ability to solve real problems The entries in the curriculum section are grouped by scientific area Life Science Earth Science Physical Science and Multidisciplinary and Applied Science and by type core materials supplementary materials and science activity books Additionally a section of references for teachers provides annotated listings of books about science and teaching directories and guides to science trade books and magazines that will help teachers enhance their students science education Resources for Teaching Elementary School Science also lists by region and state about 600 science centers museums and zoos where teachers can take students for interactive science experiences Annotations highlight almost 300 facilities that make significant efforts to help teachers Another section describes more than 100 organizations from which teachers can obtain more resources And a section on publishers and suppliers give names and addresses of sources for materials The guide will be invaluable to teachers principals administrators teacher trainers science curriculum specialists and advocates of hands on science teaching and it will be of interest to parent teacher organizations and parents

*Research in Education* ,1974      School Science Practical Work in Africa Umesh Ramnarain,2020-06-01 School Science Practical Work in Africa presents the scope of research and practice of science practical work in African schools It brings together prominent science educators and researchers from Africa to share their experience and findings on pedagogical innovations and research informed practices on school science practical work The book highlights trends and patterns in the enactment and role of practical work across African countries Practical work is regarded as intrinsic to science teaching and learning and the form of practical work that is strongly advocated is inquiry based learning which signals a definite paradigm shift from the traditional teacher dominated to a learner centered approach The book provides empirical research on approaches to practical work contextual factors in the enactment of practical work and professional development in teaching practical work This book will be of great interest to academics researchers and post graduate students in the fields of science education and educational policy

**Parliamentary Papers** Great Britain. Parliament. House of Commons,1920      *The Publishers Weekly* ,1924      **Chemical News and Journal of Physical Science** ,1887

*The Budget of the United States Government* United States. Bureau of the Budget,1940      Message of the President of the United States Transmitting the Budget for the Service of the Fiscal Year Ending ... United States,1938      Message of the President of the United States Transmitting the Budget United States,United States. Bureau of the Budget,1934      The Chemical News and Journal of Physical Science ,1905      **Bulletin** ,1918      **Resources for Teaching Middle School Science** Smithsonian Institution,National Academy of Engineering,National Science Resources Center of the National Academy of Sciences,Institute of Medicine,1998-03-30 With age appropriate inquiry centered curriculum materials and sound teaching practices middle school science can capture the interest and energy of adolescent students and expand their

understanding of the world around them Resources for Teaching Middle School Science developed by the National Science Resources Center NSRC is a valuable tool for identifying and selecting effective science curriculum materials that will engage students in grades 6 through 8 The volume describes more than 400 curriculum titles that are aligned with the National Science Education Standards This completely new guide follows on the success of Resources for Teaching Elementary School Science the first in the NSRC series of annotated guides to hands on inquiry centered curriculum materials and other resources for science teachers The curriculum materials in the new guide are grouped in five chapters by scientific area Physical Science Life Science Environmental Science Earth and Space Science and Multidisciplinary and Applied Science They are also grouped by type core materials supplementary units and science activity books Each annotation of curriculum material includes a recommended grade level a description of the activities involved and of what students can be expected to learn a list of accompanying materials a reading level and ordering information The curriculum materials included in this book were selected by panels of teachers and scientists using evaluation criteria developed for the guide The criteria reflect and incorporate goals and principles of the National Science Education Standards The annotations designate the specific content standards on which these curriculum pieces focus In addition to the curriculum chapters the guide contains six chapters of diverse resources that are directly relevant to middle school science Among these is a chapter on educational software and multimedia programs chapters on books about science and teaching directories and guides to science trade books and periodicals for teachers and students Another section features institutional resources One chapter lists about 600 science centers museums and zoos where teachers can take middle school students for interactive science experiences Another chapter describes nearly 140 professional associations and U S government agencies that offer resources and assistance Authoritative extensive and thoroughly indexed and the only guide of its kind Resources for Teaching Middle School Science will be the most used book on the shelf for science teachers school administrators teacher trainers science curriculum specialists advocates of hands on science teaching and concerned parents

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web apr 26 2012 it is a montgomery ward co hercules double i do not have a picture so i am not familiar with the specific physical features but i do have the markings they are montgomery ward co hercules patent apr 20 1915 the top of the barrel has a proof tested 12 ga mark

**info wanted on my hercules 16 gauge shotgun pics inside** - Sep 21 2022

web apr 12 2009 hi long time lurker on this forum i picked up this shotgun today it has hercules montgomery ward markings and it's a 16 gauge it doesn't have a serial number and it's over 50 years old that's all i know can anyone provide more info on those shotguns is there online resources that can help me get some history on this brand

**this old gun ward's western field model 10 american rifleman** - Mar 28 2023

web the single shot shotgun reigned supreme in the first half of the 20th century and this ward's western field model 10 is evidence of the hard use these budget guns saw

montgomery ward co 1929 hercules 410 ga proxibid - Oct 23 2022

web montgomery ward co 1929 hercules 410 ga single shot shotgun very good 26 barrel shiny bore tight action features blued plain barrel with brass bead receiver is case hardened with color still visible shotgun

**montgomery wards hercules shotgun price and** - Jan 14 2022



web summary for sale 0 sold 0 charts what is a montgomery wards hercules shotgun worth a montgomery wards hercules shotgun currently has too little sold data to calculate an average price the demand of new montgomery wards hercules shotgun s has not changed over the past 12 months

hercules new and used price value trends 2023 true - Oct 03 2023

web 106 00 used other model montgomery ward hercules shotgun 20 ga 28 sold location lebanon oh 45036 sold date 10 9 2023 12 00 00 am 230 00 used iver johnson hercules 32 barrel 2 75 12 ga fixed mod full sxs shotgun other length sold location twin falls id 83301 sold date 10 5 2023

**montgomery ward co hercules 410 shotgun** - Dec 25 2022

web montgomery ward co hercules 410 shotgun description proof tested 410 gauge side by side double barrel shotgun with 26 inch blued barrels with a raised solid rib with a front bead and mid bead sight double triggers top tang mounted safety case hardened receiver with strong colors checkered wood forearm and pistol grip stock are

**hercules montgomery ward sxs shotgun forum** - Sep 02 2023

web dec 12 2012 the only markings on it are hercules montgomery ward co pat april 20 1915 on the left side of the receiver and pat applied for on the right side it has a single non inertia trigger and a single extractor not ejector the only markings on the barrel read proof tested 12g

montgomery ward co hercules model 12 ga shotgun - Mar 16 2022

web caliber 12 ga s n 60923 brl length 30 good plus condition break action select forged steel barrel with a bore that shines very bright having a single bead front sight and factory bluing that shows some light freckling spotting and very minor thinning on the muzzle the receiver frame shows some traces of case coloring and freckling with

**stevens wards hercules model 10 16 ga single shot break action shotgun** - May 30 2023

web jul 26 2011 description stevens wards hercules model 10 16 ga single shot break action shotgun with 30 in mod choke bbl this is a stevens 94a badged and sold by montgomery ward back in the day as a wards hercules model 10 the bore is not bright the forearm is not secure and the barrel has a distinct upward bend so who are we

*hercules 12 gauge shotgun forum* - Feb 12 2022

web oct 31 2012 the guns were made for and sold by the montgomery ward company a retail chain store with offices in chicago il this gun can be identified as have been made by stevens

montgomery ward co hercules 20 ga shotgun forum - Nov 23 2022

web apr 2 2008 montgomery wards never made a gun they sold guns from a lot of different makers your hercules is the wards version of some gun with a famous name if you d tell us if it s a pump single shot or double barreled side by side it would help also if you tell us exactly all the words stamped on the barrel it might help

montgomery ward hercules guns international - Jan 26 2023

web montgomery ward hercules description guns listing id 649357 used needs to be cleaned ay sold manufacturer

montgomery ward model hercules condition used non certified barrels 30 barrel gauge info 16 ga finish blue

information on hercules the firearms forum - Aug 01 2023

web mar 16 2009 receiver left side hercules nothing else on the exterior receiver inside left rail 99 55 8 i don t know if any of this leads to the model number don t know what guage who this was made for montgomery ward etc this shotgun is as plain as anything i have ever seen nothing ornate