

# 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

$$= 100 \times \frac{20}{3600} = 5.55 \text{ m}$$

$$= 5.5 \text{ m}$$

$$= 0.0055 \text{ km}$$

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

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

$$= 0.072 \text{ hours}$$

### 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

# Physical Science Paper1 Scope

**Jiyuan Zhang**



## **Physical Science Paper1 Scope:**

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Developments in the Methodology of Social Science W. Leinfellner, Eckehart Köhler, 2012-12-06 Philosophy of Science deals with the problem What is science It seems that the answer to this question can only be found if we have an answer to the question How does science function Thus the study of the methodology of social sciences is a prominent factor in any analysis of these sciences The history of philosophy shows clearly that the answer to the question How does science function was the *conditio sine qua non* of any kind of philosophy of science epistemology and even of logic Aristotle Hume Kant Mill Russell to mention a few classical authors clearly emphasized the primacy of methodology of science for any kind of philosophy of science One may even state that analyses of the presup positions the foundations the aims goals and purposes of science are nothing else than analyses of their general and specific formal as well as practical and empirical methods Thus the whole program of any philosophy of science is dependent on the analysis of the methods of sciences and the establishment of their criteria If the study of scientific method is the predominant factor in the philosophy of science then all the other problems will depend on the outcome of such a study For example the old question of a possible unity of all social sciences will be brought to a solution by the study of the presuppositions the methods as well as of the criteria germane to all social sciences

*School Science and Mathematics* ,1929 Physical Science Robert M. Dixon,1991 **Method in the Physical Sciences** G Schlesinger,2014-04-04 Originally published in 1963 Can one discern certain regularities in the manoeuvrings and techniques employed by scientists and can these be formulated into the methodological principles of science What is the origin and basis of such principles Are they imposed by objective realities do they derive from conceptual

necessities or are they rooted in our own deep seated predilections This volume investigates these questions and sheds light on the growth mechanism of the evolving structure of science itself      **Metaphysics of Consciousness** William Seager, 2002-09-11 Metaphysics of Consciousness opens with a development of the physicalist outlook that denies the need for any explanation of the mental This inexplicability is demonstrated not to be sufficient as refutation of physicalism However the inescapable particularity of modes of consciousness appears to overpower this minimal physicalism This book proposes that such an inference requires either a wholly new conception of how consciousness is physical or a deep and disturbing new kind of physical inexplicability      Physics For B.Sc. Students Semester I: Paper 1 & 2 | Measurements, Mechanics and Properties of Matter | Kinetic Theory of Gases and Thermodynamics - NEP 2020 Maharashtra P S Hemne, SR Choubey, K Dabre, R Ukare, P Ambekar, C L Arora, This textbook is designed specifically for the B Sc Physics curriculum under the National Education Policy NEP in Maharashtra provides a comprehensive and solid foundation in classical physics The chapters have been meticulously selected and structured to align with the educational objectives of fostering analytical thinking enhancing problem solving skills and cultivating a deep understanding of fundamental physical principles More than just a collection of theoretical concepts this textbook encourages students to apply these principles to real world situations Through a wealth of examples problems and exercises students are guided to develop a practical and profound understanding of physics preparing them for future academic and professional pursuits Whether you are a student aiming to excel in your studies or an educator seeking a reliable resource this textbook is an indispensable tool on the journey to mastering the fascinating world of physics      **Science Teaching in Schools** Great Britain: Parliament: House of Lords: Science and Technology Committee, 2006-11-05 The Committee's report examines science and mathematics teaching in secondary schools in England focusing on the following issues the take up of science and mathematics at GCSE and A level the provision of careers advice to students problems in the recruitment and retention of teachers the quality of teaching methods and the role of continuing professional development The Committee finds that effective science teaching in schools is essential both in order to ensure a satisfactory general level of scientific literacy in society and to enable the next generation of scientists and engineers to progress into higher education and beyond It argues that the current examination system forces students to study an excessively narrow range of subjects at too early an age and it recommends that the Government should reconsider the Tomlinson proposals for a broader diploma based system for 14-19 year old students based on the International Baccalaureate This would ensure that students receive a more rounded education and are not made to over specialise before they are able to see the merits of studying science and mathematics Concerns are also raised about the shortage of science teachers particularly specialist physics and chemistry teachers the quality of careers advice in schools and the importance of practical science in schools      **The Metaphysical Foundations of Modern Physical Science** Edwin Arthur Burtt, 1927      *Continuum Modeling in the Physical Sciences* E. van Groesen, Jaap

Molenaar,2007-01-01 Mathematical modeling the ability to apply mathematical concepts and techniques to real life systems has expanded considerably over the last decades making it impossible to cover all of its aspects in one course or textbook Continuum Modeling in the Physical Sciences provides an extensive exposition of the general principles and methods of this growing field with a focus on applications in the natural sciences The authors present a thorough treatment of mathematical modeling from the elementary level to more advanced concepts Most of the chapters are devoted to a discussion of central issues such as dimensional analysis conservation principles balance laws constitutive relations stability robustness and variational methods and are accompanied by numerous real life examples Readers will benefit from the exercises placed throughout the text and the challenging problems sections found at the ends of several chapters *Reductionism in the Philosophy of Science* Christian Sachse,2013-05-02 In contemporary philosophy of science ontological reductionism or the claim that everything that exists in the world is something physical is the consensus mainstream position Contrary to a widespread belief this book establishes that ontological and epistemological reductionism stand or fall together The author proposes a new strategy of conservative theory reduction that operates by means of the construction of functional sub concepts that are coextensional with physical concepts Thus a complete conservative reductionism is established that vindicates both the indispensable scientific character of the special sciences and their reducibility to physics The second part of the book works this strategy out using the example of classical and molecular genetics **Research Strategies for the U.S. Global Change Research Program** National Research Council,Division on Engineering and Physical Sciences,Commission on Physical Sciences, Mathematics, and Applications,Committee on Global Change,1990-02-01 This book recommends research priorities and scientific approaches for global change research It addresses the scientific approaches for documenting global change developing integrated earth system models and conducting focused studies to improve understanding of global change on topics such as earth system history and human sources of global change **Statutes and Ordinances of the University of Cambridge 2009** University of Cambridge,2009-10-08 The 2009 10 volume of the formal governing regulations of the University of Cambridge annually updated *Nuclear Science Abstracts* ,1976-05 **Formal Methods in the Methodology of Empirical Sciences** Marian Przelecki,A. Szaniawski,Ryszard Wójcicki,2012-12-06 Proceedings of the Conference for Formal Methods in the Methodology of Empirical Sciences Warsaw June 17 21 1974 Poland *A Concise Handbook of Mathematics, Physics, and Engineering Sciences* Andrei D. Polyanin,Alexei Chernoutsan,2010-10-18 A Concise Handbook of Mathematics Physics and Engineering Sciences takes a practical approach to the basic notions formulas equations problems theorems methods and laws that most frequently occur in scientific and engineering applications and university education The authors pay special attention to issues that many engineers and students Chemical News and Journal of Physical Science ,1909 Boston Studies in the Philosophy of Science Robert S. Cohen,Marx W. Wartofsky,2012-12-06 In this fifth volume of Boston Studies in the Philosophy of Science

we have gathered papers about the logic and methods of the natural sciences Along with the individual pieces there are several which have originated as commentaries but are now supplementary contributions those by Stachel and Putnam Grinbaum s long essay developed from a paper first suggested for our Colloquium some years ago and we are glad of the occasion to publish it here Several of the papers were not first presented to our Colloquium but they are the work of friends and scholars who have contributed to our discussions along similar lines We are grateful to them for allowing us to publish their papers L Bernard Cohen Hilary Putnam Mihailo Markovic And we are also grateful to C F von Weizsacker for his paper recently presented to the Boston philosophical and scientific community as a lecture at M LT With these few exceptions the fifth volume presents work which was partially supported by a grant from the U S National Science Foundation to Boston University Such support will conclude with the fourth volume of philosophical studies of psychology the social sciences history and the inter relationships of the sciences with ethics and metaphysics Unimportant circumstances made it necessary to publish that fourth volume after this fifth volume and perhaps this will mildly suggest that neither science nor the philosophy of science needs to be constrained by orthodoxy of procedure

**Mathematical Physics, 4th Edition** Gupta B.D., The purpose of the book is to provide a comprehensive study of the mathematics underlying theoretical physics at the level of graduate and postgraduate students and also have enough depth for others interested in higher level mathematics relevant to specialized fields It is also intended to serve the research scientist or engineer who needs a quick refresher course in the subject

*The Chemical News : and Journal of Physical Science* ,1909

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