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Then it talks about various mode of Heat transfer like Thermal conduction, Convection & Radiation Notes Thermal Properties of Matter Heat Transfer Assignments (for JEE and Competition level) Revision Notes Thermal Properties Of matter Revision Notes Heat Transfer Revision Notes Chapter 12:Thermodynamics This chapter is about laws of Thermodynamics,Thermodynamic Processes like Isothermal ,Adiabatic & Isochoric process.It also talks about Heat Engine and efficiency,Principle of a Refrigerator & Carnot's Heat Engine Notes Assignments (for JEE and Competition level) Revision Notes Thermodynamics Revision Notes Chapter 13: Kinetic Theory of Gas Notes Assignments (for JEE and Competition level) Revision Notes Kinetic Theory of Gases Revision Notes Chapter 14: Oscillations Notes Assignments (for JEE and Competition level) SHM Multiple Choice Questions SHM Problems Chapter 15: Waves Assignments (for JEE and Competition level) Waves Problems and Solutions link to this page by copying the following textPhysics notes for class 11 Download PDF of class 11 Physics notes Chapter 1 Physical World. 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These key notes are based on NCERT textbooks and important for understanding the concepts as well as exam preparation. These notes are also important for CBSE Class 11 Physics exams.Class 11 Physics chapter wise notes based on Chapter 1, Physical World of 11th Physics NCERT textbook are available here. These notes are as per latest CBSE Class 11 Physics Syllabus 2017-18 and important for CBSE school exams and complete examinations like NEET, JEE Mains etc. Physics - Meaning The term derived from Greek word meaning nature. Sanskrit equivalent of the word Physics is Bhautiki that is used to refer to the study of the physical world in a broader sense Physics is the study of the basic laws of nature and their manifestation. Physics is all about explaining diverse physical phenomena with the help of few concepts and laws. CBSE Class 11 Physics Syllabus 2017 - 2018 Scope and Excitement of Physics In Physics, there are two domains of interest macroscopic and microscopic. Macroscopic domain: It includes phenomena at the laboratory, terrestrial and astronomical scales. Microscopic domain: It includes atomic, molecular and nuclear phenomena. However, recently a third domain of interest between macroscopic domain and microscopic domain (Mesoscopic) has also come in light. In this domain scientists deals with a few tens or hundreds of atoms, has emerged as an exciting field of research. Various theories related to macroscopic domain and microscopic domain are further categorised as given below Classical Physics It is the study of macroscopic phenomena. It includes subjects like • Mechanics: Under mechanics, we study Newton's laws of motion The law of gravitation is concerned with the motion (or equilibrium) of particles, rigid and deformable bodies, and general systems of particles.) • Electrodynamics: It deals with electric and magnetic phenomena associated with charged and magnetic bodies. • Thermodynamics: It deals with systems in macroscopic equilibrium and is concerned with changes in internal energy, temperature, entropy, etc., of the system through external work and transfer of heat. The efficiency of heat engines and refrigerators etc. • Optics: It is the study of phenomenon connected with light and optical instruments like telescope, microscope etc. Quantum Theory It is the framework for explaining microscopic phenomena as classical physics can't explain phenomenon at microscopic level (or smaller dimensions like atoms, nuclei etc.) Physical World: CBSE Class 11 NCERT Solution Physics, Technology and Society There are number of examples in the world which shows close relation between physics, technology and society. Such as, the steam engine is inseparable from the Industrial Revolution in England in the 18th century, which had great impact on the course of human civilisation. Wireless communication technology, computers are some other examples. Some physicists from different countries of the world and their major contributions Image source: NCERT textbooks Link between technology and physics Image source: NCERT textbooks Fundamental Forces in Nature Four fundamental forces in nature that govern the diverse phenomena of the macroscopic and the microscopic world are given below • Gravitational Force • Electromagnetic Force • Strong Nuclear Force • Weak Nuclear Force Basic Properties of Fundamental Forces in Nature Name Relative Strength (& Range) Operates among Gravitational force 10–39 (Infinite) All objects in the universe Weak nuclear force 10–13 (Very short, Sub-nuclear size: ~10–16 m) Some elementary particles, particularly electron and neutrino Electromagnetic force 10–2 (Infinite) Charged particles Strong nuclear force 1 (Short, nuclear size ~10–15 m) Nucleons, heavier elementary particles Conservation Laws in Physics The physical quantities that remain unchanged in a process are called conserved quantities. Some of the general conservation laws in nature include the laws of conservation of energy, mass, linear momentum, angular momentum, charge, parity, etc. Some conservation laws are true for one fundamental force but not for the other. You will study details of these laws in consecutive chapters. These conservation laws have a deep connection with symmetries of nature. Symmetries of space and time, and other types of symmetries play a central role in modern theories of fundamental forces in nature. NCERT Exemplar Questions: CBSE Class 11 Physics – Chapter 1

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