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| **Subject** | **Theme** | **Topic** | **Sub-Topics** |
| Physics | Kinematics | Motion | a. Motion of an Object; Rate of Motion; Velocity  b. Graphical Representation of Motion - Distance and Velocity time graphs  c. Equations of Motion  d. Uniform Circular Motion |
| Motion and Measurements of Distance | a. Distance - Story of transport, measurement, length of a curved line  b. Types of Motion |
| Motion and Time | a. Speed  b. Measurement of Time  c. Graphs |
| Force | Force and Laws of Motion | a. Balanced and Unbalanced forces b. Newton's Laws of Motion - Inertia and Mass; Conservation of Momentum |
| Force and Pressure | a. Push and Pull b. Force due to an Interaction c. Force can change the state of motion or shape of an object d. Contact Forces - muscular, friction e. Non-contact Forces - Magnetic, Electrostatic, Gravitational f. Pressure exerted by liquids and gases g. Atmospheric Pressure |
| Friction | a. Factors affecting friction b. Necessity of Friction c. Increasing and reducing friction, e.g. wheels d. Fluid friction |
| Gravitation | a. Gravitation b. Gravitational Force of Earth - Free Fall |
| Chemistry | Acids, Bases and Salts | Acids, Bases and Salts | a. Chemical Properties of Acids and Bases - reaction with metals, metallic carbonates, each other, metal and non-metal oxides etc  b. Common properties of acids and bases  c. Strength of Acids and Bases  d. Salts - Family, pH  e. Chemicals from Common Salt - sodium hydroxide, bleaching powder, baking soda, washing soda  f. Salt crystals - are they really dry? |
| Matter | Is Matter Around Us Pure | a. What is a mixture?; Type of mixtures  b. Solutions  c. Components of a mixture and separation  d. pH indicators, elements, compounds |
| Matter in Our Surroundings | a. Physical Nature of Matter; Particles of Matter b. States of Matter; Change of States of Matter, e.g. Evaporation |
| Sorting Materials into Groups | a. Properties of Materials - appearance, hardness, solubility, density, transparency etc |
| Structure of The Atom | a. Atomic Structure - Charged Particles in Matter b. Thomson's, Rutherford's and Bohr's model c. Neutrons, Electrons, Protons d. Electronic Shells and Valency e. Atomic number and mass f. Isotopes and Isobars |
| Biology | Animal Joints and Movement | Body Movement and Gait of Animals | a. Human Body and its Movements - Types of joints b. Gait of Animals - Earthworm, snail, cockroach, birds, fish, snake, etc. |
| Animal Respiration and Transportation | Respiration in Organisms | a. Need of respiration  b. Breathing - Inhale/exhale, in humans, other animals  c. Breathing under water  d. Breathing in plants |
| Transportation in Animals and Plants | a. Circulation System - Blood, vessels, heart  b. Excretion in Animals  c. Transportation in Plants - Transport of water and minerals, transpiration |