Base Model Sr. Sec. School
(Affiliated to CBSE, New Delhi. Regd. No. 530959, School No. 20662)
Charkhi Dadri - 127306 (Haryana)
website : www.basemodelschool.com
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(Makes the Base, Shapes the Future)

MATHS

Chapter 1 Number System

Chapter 2 Polynomials

Chapter 3 Coordinate Geometry

Chapter 4 Linear Equations in Two Variables

Chapter 5 Lines and Angles

Chapter 6 Triangles

Chapter 7 Quadrilaterals

Chapter 8 Circles

Chapter9 Heron's Formula

Chapter 10 Surface Areas and Volumes

ENGLISH

Grammar & Writing Skills

- Determiners (gap filling)
- Tenses
- Modals
- Subject-Verb Concord
- Reported Speech
- Commands, Requests, Statements, Questions
- Descriptive Paragraph (100-120 words)
- Story / Diary Entry (100-120 words)

SOCIAL STUDIES

History:

- **The French Revolution**
- **Socialism in Europe and the Russian Revolution**
- **Nazism and the Rise of Hitler**
- **Forest, Society and Colonialism**
- **Pastoralists in the Modern World**

II. Ge**ography :**

- **India – Size and Location**
- **Physical Features of India**
- **Drainage**
- **Climate**
- **Natural Vegetation and Wildlife**
- **Population**

III. poli**tical science (civics)**

- **What is Democracy? Why Democracy?**
- **Constitutional Design**
- **Electoral Politics**
- **Working of Institutions**
- **Democratic Rights**

IV. Economic

- **The Story of Village Palampur**
- **People as a Resource**
- **Poverty as a Challenge**
- **Food Security in India**

SCIENCE

Unit I: Matter-Nature and Behaviour

Matter in Our Surroundings: Definition of matter; Particulate Nature of Matter; States of Matter: solid, liquid and gas and their characteristics; change of state- melting (absorptionof heat), freezing, evaporation (cooling by evaporation), condensation, sublimation.

Is Matter Around Us Pure: Elements, compounds and mixtures.Heterogeneous and homogenous mixtures, colloids and suspensions. Physical and chemical changes , Pure and Impure substances.

Atoms and Molecules: Atoms and molecules, Law of Chemical Combination, Chemicalformula of common compounds, Atomic and molecular masses , mole concept.

Structure of atom: Sub-atomic particles: Electrons, protons and neutrons, Models of atom; Valency, Atomic Number and Mass Number, Isotopes and Isobars.

Unit II: Organization in the Living World

Cell - Basic Unit of life: Cell as a basic unit of life; prokaryotic and eukaryotic cells, multicellular organisms; cell membrane and cell wall, cell organelles and cell inclusions,chloroplast, mitochondria, vacuoles, endoplasmic reticulum, Golgi apparatus; nucleus,chromosomes - basic structure, number.

Tissues, Organs, Organ System, Organism:

Structure and functions of animal and plant tissues (only four types of tissues in animals ,Meristematicand Permanent tissues in plants).

Unit III: Motion, Force and Work

Motion: Distance and displacement, velocity; uniform and non-uniform motion along a straight line; acceleration, distance-time and velocity-time graphs for uniform motion and uniformly accelerated motion, elementary idea of uniform circular motion.

Force and Newton's laws: Force and Motion, Newton's Laws of Motion, Action andReaction forces,Inertia of a body, Inertia and mass, Momentum, Force and Acceleration.

Gravitation: Gravitation; Universal Law of Gravitation, Force of Gravitation of the earth(gravity),Acceleration due to Gravity; Mass and Weight; Free fall.

Floatation: Thrust and Pressure. Archimedes' Principle; Buoyancy ,

Work, Energy and Power: Work done by a Force, Energy, power; Kinetic and Potentialenergy; Lawof conservation of energy (excluding commercial unit of Energy).

Sound: Nature of sound and its propagation in various media, speed of sound, range ofhearing in humans; ultrasound; reflection of sound; echo.