



BLOOM PUBLIC SCHOOL
C-8 Vasant Kunj New Delhi
SYLLABUS FOR THE SESSION 2026-27

Class: VIII
Subject: Science

| SYLLABUS | | | |
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| MONTH | CHAPTERS (NCERT TEXT BOOK) | CONTENT | Practical/Activities |
| April | <p>Chapter 2: The Invisible Living World: Beyond Our Naked Eye</p> <p>Chapter 4: Electricity: Magnetic and Heating Effects</p> | <p>The Invisible World- Microscope, Cell, Cell stain, Cell Membrane, Cytoplasm, Cell Wall, Animal and Plant Cell, Structure of cell, organisation of cell, Unicellular and Multicellular Organism, Micro-Organism, Foldscope, Soil Suspension, Organism present in pond, Virus, Decomposers, Manure, Fertilizer, Bio gas, Patent, Micro-Organism and food, Micro-Algae, Cell basic unit of life.</p> <p>Electricity -Electric and Magnetic Effect, Magnetic field, Electromagnet, Lifting Electromagnet, Heating Effect of current, Overload, Voltaic Cell, Dry Cell, rechargeable batteries</p> | <p>Activity: Students will be taken to the lab to show slides on micro-organisms.</p> <p>Activity: Students will be taken to the lab to show the magnetic effect of current using a compass.</p> |
| May | <p>Chapter 7: Particulate Nature of Matter</p> | <p>Particulate Nature of Matter- Matter, Constituent Particles, Interparticle Space, Different states of Matter, Interparticle Attraction, Solids, melting Points of solids, Liquids, Gaseous State, Fluids, Variation of level in water, Movement of particle in different states of matter</p> | <p>Activity: Lab- mixing of potassium permanganate in water. Burning of Incense stick</p> |

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| July | <p>Chapter 3: Health: The Ultimate Treasure</p> <p>Chapter 5: Exploring Force</p> | <p>Health, How can we stay healthy, How do we know we are un well, Disease- cause and type, Communication and Non Communication Disease, Diseases spread through air, water, animals, Chronic and acute disease, Prevention and control of a disease, Immunity, Natural and Acquired, Treatment of Disease, antibiotics and antibiotic resistance.</p> <p>Force, Balanced and unbalanced force, Effects of force, Contact and Non Contact Forces, Muscular, Friction, Magnetic, Electrostatic, Gravitation, Charged body, Static Charge, Weight and Mass, Spring Balance, Floating Sinking, Upthrust, Buoyant Force.</p> | <p>Activity: Canva Infographic on how antibiotic resistance has been developed in bacterial pathogens.</p> <p>Role Play on Communicable diseases.</p> <p>Activity: Balloon experiment to show electrostatic charge.</p> <p>Spring balance to measure weight of unknown objects.</p> |
| August | <p>Chapter 8: Nature of matter</p> <p>Chapter 6: Pressure, Winds, Storm and Cyclones</p> | <p>Mixture, Homogeneous and Heterogeneous Mixture, Uniform and Non uniform Mixture, Alloy, Is Air a mixture? Pure substance, Types of pure substances, Electrolysis of water, Elements, Compounds, Uses of mixture, elements and compounds, what are minerals?</p> <p>Pressure, pressure with height, atmospheric pressure, formation of wind, storms, thunderstorm, lighting, Cyclone.</p> | <p>Activity: Reaction of calcium oxide with carbon dioxide.</p> <p>Burning of sugar.</p> <p>Activity: To observe pressure at various heights.</p> |
| September | | REVISION | |
| October | Chapter 9: The Amazing World of Solutes, Solvents, and Solutions | Uniform and non uniform mixture, solution-solvent and solute, Dissolution, saturated and unsaturated solution, Concentrated and Dilute solution, Solubility, Temperature affecting the solubility, Solubility of gas, float and sink, Density, Volume of a regular and irregular body, Pressure inside earth, effect of temperature and pressure on density. | Activity:9.7 Determining volume of solid objects with irregular shapes. |

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| November | Chapter 10: Light- Mirror and Lenses | Spherical mirrors and their curvature, types and image characteristics, concave and convex mirror images, lateral inversion, practical applications of image properties, laws of reflection and behavior of light rays, convergence of light, lenses and their types, lens effects and image formation, light behavior through lenses, practical uses of lenses, the human eye as a lens system, focusing sunlight and safety considerations, applications in technology, transportation, medical and scientific fields, security uses, scientific heritage and historical innovations. | Activity 10.4: To observe the reflection of a beam of light from a plane mirror.(Laws of reflection) Activity 10.9: Compare the images formed through concave and Convex lens |
| December | Chapter 11: Keeping with Time Chapter 12: How Natures Work (CBE) | Moon's Changing Appearance, Phases and Position, Origin of Calendars, Time Units and Calendar Types, Scientific Heritage and Traditions, Indian National Calendar, Festivals and Astronomy, Lunar and Solar Festivals, Cultural Impact, Artificial Satellites and Their Functions, Indian Space Missions, Observing Satellites, Space Debris. Elephant Corridor, Experiencing Our Surroundings, Living Together in Nature, Importance of Organisms in a Community, Types of Interactions, Living and Non-Living Interactions, Interactions Among Organisms, Ecosystem Formation, Feeding Relationships, Organisms Based on Feeding, Food Chains and Webs, Trophic Levels, Waste in Nature, Chain of Changes, Ecosystem Balance, Benefits of Ecosystems, Case Study – The Sundarbans, Human Impact and Sustainability, Green Revolution Effects. | To observe how the Moon's illuminated part changes with its position relative to the Sun. Draw: Food Chain and Food web To identify habitat changes using satellite data. (Bhuvan portal) |
| January | Chapter 13: Our Home (CBE) | Earth's Uniqueness, Planets of the Solar System, Suitability for Life, Earth's Position and Size, Magnetic Field, Life-Sustaining Factors, Air, Water and Sunlight, Soil, Rocks and Minerals, Living Organisms, Importance of Balance, Continuity of Life, Reproduction and Its Types, Threats to Life, Climate Change, Pollution and Habitat Loss, Global Efforts. | To observe asexual reproduction methods. |

ASSESSMENT SYLLABUS

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| PERIODIC ASSESSMENT -1 | Chapter 2: The Invisible Living World: Beyond Our Naked Eye Chapter 4: Electricity: Magnetic and Heating Effects Chapter 7: Particulate Nature of Matter |
| PERIODIC ASSESSMENT - 2 | Chapter 9: The Amazing World of Solutes, Solvents, and Solutions Chapter 10: Light- Mirror and Lenses |
| MID TERM EXAMINATION | Chapter 2: The Invisible Living World: Beyond Our Naked Eye Chapter 3: Health: The Ultimate Treasure Chapter 4: Electricity: Magnetic and Heating Effects Chapter 5: Exploring Forces Chapter 6: Pressure, Winds, Storm and Cyclones Chapter 7: Particulate Nature of Matter Chapter 8: Nature of matter |
| ANNUAL EXAMINATION | Chapter 2: The Invisible Living World: Beyond Our Naked Eye Chapter 3: Health: The Ultimate Treasure Chapter 4: Electricity: Magnetic and Heating Effects Chapter 5: Exploring Forces Chapter 6: Pressure, Winds, Storm and Cyclones Chapter 7: Particulate Nature of Matter Chapter 8: Nature of matter Chapter 9: The Amazing World of Solutes, Solvents, and Solutions Chapter 10: Light- Mirror and Lenses Chapter 11: Keeping with Time |