



**BLOOM PUBLIC SCHOOL**  
*C-8 Vasant Kunj New Delhi*  
**SYLLABUS FOR THE SESSION 2021-22**

**Class: X**

**Subject: Science**

<b>MONTH</b>	<b>CHAPTERS (NCERT TEXT BOOK)</b>	<b>CONTENT (As per Rationalised Syllabus)</b>
<b>April</b>	Ch. 1: Chemical Reactions and Equations  Ch. 6: Life Processes	<b>Chemical reactions:</b> Chemical equation, Balanced chemical equation, implications of a balanced chemical equation, types of chemical reactions: combination, decomposition, displacement, double displacement, precipitation, neutralization, oxidation and reduction.  <b>Life processes:</b> 'Living Being'. Basic concept of nutrition, respiration, transport and excretion in plants and animals.
<b>June</b>	Ch 1: Chemical Reactions and Equations (cont'd)	<b>Chemical reactions:</b> Chemical equation, Balanced chemical equation, implications of a balanced chemical equation, types of chemical reactions: combination, decomposition, displacement, double displacement, precipitation, neutralization, oxidation and reduction.

	<p>Ch.6: Life Processes (cont'd).</p> <p>Ch. 10: Light - Reflection and Refraction</p>	<p><b>Life processes:</b> 'Living Being'. Basic concept of nutrition, respiration, transport and excretion in plants and animals.</p> <p><b>Light:</b> Reflection of light by curved surfaces; Images formed by spherical mirrors, centre of curvature, principal axis, principal focus, focal length, mirror formula (Derivation not required), magnification. Refraction; Laws of refraction, refractive index. Refraction of light by spherical lens; Image formed by spherical lenses; Lens formula (Derivation not required); Magnification. Power of a lens.</p>
<p><b>July</b></p>	<p>Ch. 2: Acids, Bases and Salts</p> <p>Ch.6: Life Processes (cont'd).</p> <p>Ch. 10: Light - Reflection and Refraction(cont'd).</p>	<p><b>Acids, bases and salts:</b> Their definitions in terms of furnishing of H<sup>+</sup> and OH<sup>-</sup> ions, General properties, examples and uses, concept of pH scale (Definition relating to logarithm not required), importance of pH in everyday life; preparation and uses of Sodium Hydroxide, bleaching powder, Baking soda, Washing soda and Plaster of Paris.</p> <p><b>Life processes:</b> 'Living Being'. Basic concept of nutrition, respiration, transport and excretion in plants and animals.</p> <p><b>Light:</b> Reflection of light by curved surfaces; Images formed by spherical mirrors, centre of curvature, principal axis, principal focus, focal length, mirror formula (Derivation not required), magnification. Refraction; Laws of refraction, refractive index. Refraction of light by spherical lens; Image formed by spherical lenses; Lens</p>

	<b>Unit Test-1</b>	formula (Derivation not required); Magnification. Power of a lens.
<b>August</b>	<p>Ch 2: Acids, Bases and Salts (Cont'd)</p> <p>Ch 3: Metals and Non metals</p> <p>Ch. 6: life process (cont'd)</p> <p>Ch. 11: Human Eye and Colourful world</p>	<p><b>Acids, bases and salts:</b> Their definitions in terms of furnishing of H<sup>+</sup> and OH ions, General properties, examples and uses, concept of pH scale (Definition relating to logarithm not required), importance of pH in everyday life; preparation and uses of Sodium Hydroxide, bleaching powder, Baking soda, Washing soda and Plaster of Paris.</p> <p><b>Metals and nonmetals:</b> Properties of metals and non-metals; Reactivity series; Formation and properties of ionic compounds</p> <p><b>Life processes:</b> 'Living Being'. Basic concept of nutrition, respiration, transport and excretion in plants and animals.</p> <p><b>Human Eye and Colourful World:</b> Refraction of light through a prism, dispersion of light, scattering of light, applications in daily life</p>

<p><b>September</b></p>	<p>Ch 3: Metals and Non-metals (cont'd)</p> <p>Ch. 6: life process (cont'd)</p> <p>Ch. 11: Human Eye and Colourful world(cont'd).</p> <p><b>Unit Test- 2</b> <b>Term 1 Practical Exam</b></p>	<p><b>Metals and nonmetals:</b> Properties of metals and non-metals; Reactivity series; Formation and properties of ionic compounds.</p> <p><b>Life processes:</b> 'Living Being'. Basic concept of nutrition, respiration, transport and excretion in plants and animals.</p> <p><b>Human Eye and Colourful World:</b> Refraction of light through a prism, dispersion of light, scattering of light, applications in daily life</p>
<p><b>October</b></p>	<p>Ch 4: Carbon and it's Compounds</p> <p>Ch. 8: How do organisms Reproduce?</p> <p>Ch. 12: electricity</p> <p><b>Term 1 Exam</b></p>	<p><b>Carbon compounds:</b> Covalent bonding in carbon compounds. Versatile nature of carbon. Homologous series.</p> <p><b>Reproduction:</b> Reproduction in animals and plants (asexual and sexual) reproductive health-need and methods of family planning. Safe sex vs HIV/AIDS.Child bearing and women's health.</p> <p><b>Electricity:</b> Electricity Ohm's law; Resistance, Resistivity, Factors on which the resistance of a conductor depends. Series combination of resistors, parallel combination of resistors and its applications in daily life. Heating effect of electric current and its applications in daily life. Electric power, Interrelation between P, V, I and R.</p>

<p><b>November</b></p>	<p>Ch. 8: How do organisms Reproduce? (cont'd)</p> <p>Ch. 5: Periodic classification of elements</p> <p>Ch. 12: Electricity (cont'd)</p>	<p><b>Reproduction:</b> Reproduction in animals and plants (asexual and sexual) reproductive health-need and methods of family planning. Safe sex vs HIV/AIDS. Child bearing and women's health.</p> <p><b>Periodic classification of elements:</b> Need for classification, early attempts at classification of elements (Dobereiner's Triads, Newland's Law of Octaves, Mendeleev's Periodic Table), Modern periodic table, gradation in properties, valency, atomic number, metallic and non-metallic properties.</p> <p><b>Electricity:</b> Electricity Ohm's law; Resistance, Resistivity, Factors on which the resistance of a conductor depends. Series combination of resistors, parallel combination of resistors and its applications in daily life. Heating effect of electric current and its applications in daily life. Electric power, Interrelation between P, V, I and R.</p>
<p><b>December</b></p>	<p>Ch. 8: How do organisms Reproduce? (cont'd)</p> <p>Ch.9: Heredity and evolution</p>	<p><b>Reproduction:</b> Reproduction in animals and plants (asexual and sexual) reproductive health-need and methods of family planning. Safe sex vs HIV/AIDS. Child bearing and women's health.</p> <p><b>Heredity:</b> Heredity; Mendel's contribution-Laws for inheritance of traits: Sex determination: brief introduction;</p>

	<p>Ch. 5: Periodic classification of elements (cont'd)</p> <p>Ch. 13: Magnetic Effect of Electric Current</p>	<p><b>Periodic classification of elements:</b> Need for classification, early attempts at classification of elements (Dobereiner's Triads, Newland's Law of Octaves, Mendeleev's Periodic Table), Modern periodic table, gradation in properties, valency, atomic number, metallic and non-metallic properties.</p> <p><b>Magnetic effects of current:</b> Magnetic field, field lines, field due to a current carrying conductor, field due to current carrying coil or solenoid; Force on current carrying conductor, Fleming's Left-Hand Rule, Electric Motor, Electromagnetic induction. Induced potential difference, Induced current. Fleming's Right Hand Rule.</p>
<p><b>January</b></p>	<p>Ch. 13: Magnetic Effect of Electric Current(cont'd)</p> <p>Ch.15: our environment</p>	<p><b>Magnetic effects of current:</b> Magnetic field, field lines, field due to a current carrying conductor, field due to current carrying coil or solenoid; Force on current carrying conductor, Fleming's Left-Hand Rule, Electric Motor, Electromagnetic induction. Induced potential difference, Induced current. Fleming's Right Hand Rule.</p> <p><b>Our environment:</b> Eco-system, Environmental problems, Ozone depletion, waste production and their solutions. Biodegradable and non-biodegradable substances.</p>

	Ch.5: periodic classification of element. (cont'd) <b>Unit Test-2</b>	<b>Periodic classification of elements:</b> Need for classification, early attempts at classification of elements (Dobereiner's Triads, Newland's Law of Octaves, Mendeleev's Periodic Table), Modern periodic table, gradation in properties, valency, atomic number, metallic and non-metallic properties.
<b>February</b>	Revision Pre-board Exam Term 2 CBSE Board Practical Exam	
<b>March</b>	CBSE Board Exam	

## ASSESSMENTS SYLLABUS

### 1. Periodic Assessment-1 (July-August)

#### CHAPTER: 1,6,10

Chapter 1: Chemical reactions and equations

Chapter 6: Life processes

Chapter 10: Light – Reflection and Refraction

### 2. Periodic assessment- 2 (September)

#### CHAPTER: 2,6,11

Chapter 2: Acid bases and salt

Chapter 6: Life process

Chapter 11: Human eye

**3. Pre-board Exam-1/Term 1 End Exam**

**CHAPTER: 1,2,6,10,11**

Chapter 1: Chemical reactions and equations

Chapter 2: Acid bases and salt

Chapter 3: Metals and Non metals

Chapter 6: Life processes

Chapter 10: Light – Reflection and Refraction

Chapter 11: Human eye

**4. Periodic Assessment-1 (Dec-Jan)**

**CHAPTER: 4,8,12**

Chapter 4: Carbon and its compound

Chapter 8: How do organisms Reproduce?

Chapter 12: Electricity.

**5. Preboard Exam-2/ Term 2 End Exam**

**CHAPTER: 4,5,8,9,12,13,15**

Chapter 4: Carbon and its compound

Chapter 5: Periodic classification of elements

Chapter 8: How do organisms Reproduce?

Chapter 9: Heredity and Evolution

Chapter 12: Electricity.

Chapter 13: Magnetic effects of current

Chapter 15: Our Environment

