SUBJECT: SCIENCE
SYLLABUS BREAKUP FOR THE ACADEMIC SESSION: 2026-27
CLASS: X
SUBJECT: BIOLOGY

S.NO.	MONTH	CHAPTER	PRACTICAL
1.	**APRIL**	**Chapter 5: Life Processes** Nutrition in Plants and animals.	Preparing a temporary mount of a leaf peel to show stomata.
	I WEEKLY TEST **TERM I** **04/05/2026**	**Chapter 5: Life Processes** Nutrition in Plants and Amoeba	
2.	**MAY**	**Chapter 5: Life Processes** Respiration, Transportation, Excretion.	Experimentally show that carbon dioxide is given out during respiration.
3.	**JULY**	**Chapter 6: Control and Coordination**	
	II WEEKLY TEST **TERM I** **20/07/2026**	**Chapter 5: Life Processes** Nutrition in Humans, Respiration, Transportation, Excretion.	
4.	**AUGUST**	**Chapter 7: How do Organisms Reproduce**	Studying (a) binary fission in Amoeba, and (b) budding in yeast and Hydra with the help of prepared slides
5.	**SEPTEMBER**	**Chapter 8: Heredity**	Identification of the different parts of an embryo of a dicot seed (Pea, gram or red kidney bean).
6.	**SEPTEMBER**	**Chapter 13: Our Environment**	
	REVISION TEST **OCTOBER**	**WHOLE SYLLABUS**	
	I PRE-BOARD **NOVEMBER**	**WHOLE SYLLABUS**	
	II PRE-BOARD **DECEMBER**	**WHOLE SYLLABUS**	

SUBJECT: PHYSICS

S.NO.	MONTH	CHAPTER	NO. OF PERIODS
1.	**APRIL-MAY**	**Chapter 9: Light: Reflection and Refraction** ● 9.1 Reflection of light ● 9.2 Spherical mirrors ● Image formation by spherical mirror ● Sign convention for reflection by spherical mirrors ● Mirror formula and magnification ● Numerical NCERT Questions and Answers discussion	**TOTAL = 11** **1** **2** **2** **1** **1** **3** **1**
	I WEEKLY TEST **TERM I** **04/05/2026**	**CHAPTER 9: LIGHT - REFLECTION** (up to Spherical mirrors and numerical based on mirror formula)	
2.	**MAY**	**Chapter 9: Light: Reflection and Refraction** ● 9.3 Refraction of light ● 9.3.1 Refraction through a rectangular glass slab ● 9.3.2 Refractive index ● 9.3.3 Refraction by spherical lenses ● 9.3.4 Image formation by lenses ● 9.3.6 Sign convention for spherical lenses ● 9.3.7 Lens formula and magnification ● 9.3.8 Power of a lens ● Numerical	**TOTAL =13** **1** **1** **2** **2** **1** **1** **1** **2** **1**

		NCERT Questions and Answers discussion	
3.	**JULY**	**Chapter: Human Eye and Colourful World** ● 10.1 The human eye ● Functioning of lens in human eye ● 10.2 Defects of vision and their correction ● 10.3 Refraction of light through a prism ● 10.4 Dispersion of white light by a glass prism ● 10.5 Atmospheric refraction ● 10.6 Scattering of light ● Applications of scattering of light in daily life (excluding colour of the sun at sunrise and sunset).	**TOTAL=8** **1** **2** **1** **1** **1** **1** **1**
	II WEEKLY TEST **TERM I** **20/07/2026**	**CHAPTER 9: LIGHT- REFRACTION**	
4.	**AUGUST**	**CHAPTER 11: ELECTRICITY** ● 11.1 Electric current and circuit ● 11.2 Electric potential and potential difference ● 11.3 Circuit diagrams ● 11.4 Ohm's law ● 11.5 Factors on which the resistance of a conductor depends ● 11.6 Resistance of a system of resistors ● Resistances in series ● Resistances in parallel ● 11.7 Heating effect of electric current	**TOTAL=10** **1** **1** **1** **1** **1** **1**

		● Practical applications of heating effect of electric current ● 11.8 Electric power ● Interrelation between P, V, I and R Numerical NCERT Questions and Answers discussion	**2** **1**
5.	**SEPTEMBER**	**CHAPTER 12: MAGNETIC EFFECTS OF ELECTRIC CURRENT** ● 12.1 Magnetic field and field lines ● 12.2 Magnetic field due to a current carrying conductor ● 12.2.1 Magnetic field due to current through a straight conductor ● 12.2.2 Right hand thumb rule ● 12.2.3 Magnetic field due to current through a circular loop. ● 12.2.4 Magnetic field due to current in a solenoid. ● 12.3 Force on a current carrying conductor in a magnetic field. ● Fleming's Left Hand Rule ● Direct current, Alternating current, frequency of AC. ● Advantage of AC over DC ● 12.4 Domestic electric circuits ● NCERT Questions and Answers discussion *EXTRA TOPICS Motor, Electromagnetic Induction, Electric Generator	**TOTAL =11** **1** **1** **1** **1** **1** **1** **1** **1** **1** **1**
	OCTOBER	**REVISION TEST**	**10**
	I PRE-BOARD EXAMINATION NOVEMBER 2026		
	II PRE-BOARD EXAMINATION DECEMBER 2026		

	THE WHOLE SYLLABUS WIIL BE EVALUATED IN I & II PRE-BOARD EXAMINATION

LIST OF EXPERIMENTS IN PHYSICS

1. To determine of the focal length of a given concave mirror.
2. To determine of the focal length of a given convex lens.
3. To trace the path of a ray of light passing through a rectangular glass slab for different angles of incidence. Measure the angle of incidence, angle of refraction, angle of emergence and interpret the result.
4. To trace the path of the rays of light through a glass prism.
5. To study the dependence of potential difference (V) across a resistor on the current (I) passing through it and determine its resistance. Also plotting a graph between V and I.
6. To determine of the equivalent resistance of two resistors when connected in series and parallel.

SUBJECT: CHEMISTRY

S.NO.	MONTH	CHAPTER	
1.	**APRIL-MAY**	**CHAPTER 1 CHEMICAL REACTIONS AND EQUATIONS** **1.1** Chemical equations ● Balancing by hit trial method. **1.2** Types of chemical reactions. ● Combination reaction ● Decomposition reaction ● Single displacement reaction ● Double displacement reaction ● Oxidation – reduction reaction **1.3** Corrosion and rancidity **NCERT** question and answer discussion.	**TOTAL = 6** **1** **3** **1** **1**
	I WEEKLY TEST **TERM I** **04/05/2026**	**CHAPTER 1 (CHEMICALS REACTIONS AND EQUATIONS TILL TOPIC 1.2.2 DECOMPOSITION REACTION)**	
2.	**MAY-JULY**	**CHAPTER 2: ACIDS, BASES AND SALTS.** **2.1** Chemical properties of acids and bases. ● Chemical properties of acids. ● Chemical properties of bases. **2.2** What do all acids and bases have in common? ● Dilution of an acid. ● Dilution of a base.	**TOTAL = 8** **2** **1**

		2.3 pH of different solutions. ● Importance of pH in daily life. **2.4** Salts (Definition, classification and Properties) ● Common salt. ● Sodium hydroxide ● Bleaching powder. ● Baking soda. ● Washing soda. ● Plaster of paris **NCERT** question and answer discussion.	**1** **3** **1**
	II WEEKLY TEST **TERM I** **20/07/2026**	**CHAPTER 1: (CHEMICALS REACTIONS AND EQUATIONS FROM TOPIC 1.2.3 TO 1.2.5)** **CHAPTER 2: (ACIDS, BASES AND SALTS TILL TOPIC 2.1.6)**	
3.	**JULY-AUGUST**	**CHAPTER 3: METAL AND NON METALS** **3.1** Physical properties. ● Metals. ● Non metals. **3.2** Chemical properties of metals. ● Reaction in air. ● Reaction with water. ● Reaction with acids. ● Reaction with the solution of other metals. **3.3** reaction of metal and non metals. ● Formation of ionic compounds. ● Properties of ionic compounds. **3.4** Extraction of metals. ● Enrichment of ores. ● Extraction of metals on the basis of activity series. ● Refining of metals. **3.5**Corrosion. **NCERT** question and answer discussion	**TOTAL = 8** **1** **2** **1** **2** **1** **1**
4.	**AUGUST-SEPTEMBER**	**CHAPTER 4: CARBON AND ITS COMPOUNDS** **4.1** The covalent bond. ● Single covalent bond.	**TOTAL = 11**

		● Double covalent bond. ● Triple covalent bond. **4.2** Versatile nature of Carbon. ● Tetracovalency. ● Catenation. ● Formation of multiple bonds. ● Isomerism. ● Homologous series. ● **IUPAC**nomenclature of carbon compounds o Hydrocarbons (Alkane, alkene and alkyne). o Alcohols Carbonyl compounds (Aldehyde and ketons). o Carboxylic acids. **4.3** Chemical properties of carbon compounds. ● Combustion reaction. ● Oxidation reaction. ● Addition reaction. ● Substitution reaction. **4.4** Some important carbon compounds. ● Ethanol (Physical and chemical properties). ● Ethanoic acid (Physical and chemical properties). **4.5** Soaps and detergents ● Introduction. ● Cleansing action of soaps. **NCERT** question and answer discussion	**1** **4** **2** **2** **1** 1
	I PRE-BOARD EXAMINATION NOVEMBER 2026		
	II PRE-BOARD EXAMINATION DECEMBER 2026		
	THE WHOLE SYLLABUS WIIL BE EVALUATED IN I & II PRE-BOARD EXAMINATION		

LIST OF EXPERIMENTS IN CHEMISTRY

FIRSTTERM:

Experiment 1: To find the pH of the following samples using pH paper/ universal indicator.

(2 Periods)

a) Dilute hydrochloric acid.
b) Dilute NaOH solution.
c) Dilute ethanoic acid solution.
d) Lemon juice.
e) Water.

f) Dilute sodium bicarbonate solution.

Experiment 2: To study the properties of acids and bases (Dil. HCl and Dil. NaOH) by their reaction

(2 Periods)

a) Litmus solution (Blue/ Red).
b) Zinc Metal.
c) Solid sodium carbonate.

Experiment 3: To perform and observe the following reaction and classify them into:

(2 Periods)

a) Action of water on quicklime (Combination reaction)
b) Action of heat on ferrous sulphate solution (Decomposition reaction)
c) Iron nails kept in solution of copper sulphate (Displacement reaction)
d) Reaction between sodium sulphate and barium chloride solutions (double displacement reaction).

Experiment 4: To observe the action of Zn, Fe, Cu and Al metals on the following salts solutions:

(2 Periods)

(a) $ZnSO_4$ (b) $FeSO_4$ (c) $CuSO_4$ (d) $Al_2(SO_4)_3$

And arrange Zn, Fe, Cu and Al metals in increasing order of reactivity based on the above result.

SECOND TERM:

Experiment 1: To study the following properties of acetic acid (ethanoic acid):

(2 Periods)

a) Odour
b) Solubility in water
c) Effect on litmus solution
d) Reaction with solid sodium carbonate.

Experiment 2: To study the saponification reaction for the preparation of soap.

(2 Periods)

Experiment 3: To compare the foaming capacity of different samples of soap.

(2 Periods)