SYLLABUS BREAKUP FOR THE ACADEMIC SESSION: 2026-27

CLASS: IX

SUBJECT: BIOLOGY

S.NO.	MONTH	CHAPTER	PRACTICAL
1.	**APRIL**	**CHAPTER-2: Cell: The Building Block of Life** Cell as a basic unit of life; prokaryotic and eukaryotic cells, multicellular organisms; cell membrane and cell wall; nucleus.	Preparation of stained temporary mounts of (a) onion peel, (b) human cheek cells & to record observations and draw their labelled diagrams.
	I WEEKLY TEST TERM I 18/05/2026	**CHAPTER-2: Cell: The Building Block of Life** Cell as a basic unit of life; prokaryotic and eukaryotic cells, multicellular organisms; cell membrane and cell wall; nucleus.	
2.	**MAY**	**CHAPTER-2: Cell: The Building Block of Life** Cell organelles and cell inclusions; plastids, mitochondria, vacuoles, endoplasmic reticulum, Golgi apparatus, lysosomes; Cell division.	Preparation of stained temporary mounts of (a) onion peel, (b) human cheek cells & to record observations and draw their labelled diagrams.
3.	**JULY**	**CHAPTER-3: Tissues in Action** Tissues for growth in plants:Apical Meristem,Lateral Meristem,Intercalary Meristem, Permanent tissue:Sclerenchyma,Parenchyma, Collenchyma. Animal Tissue:Epithellial Tissues,Connective tissue,Muscular tissues, Nervous Tissues,The Musculoskeletal system,	Identification of Parenchyma, Collenchyma and Sclerenchyma tissues in plants, from prepared slides. Draw their labelled diagrams.
	II WEEKLY TEST TERM I	**CHAPTER-2: Cell: The Building Block of Life** Cell organelles and cell inclusions; plastids, mitochondria, vacuoles, endoplasmic reticulum, Golgi apparatus, lysosomes; Cell division.	
4.	**AUGUST**	**CHAPTER-12: Reproduction: How Life Continues** Asexual Reproduction in Plants: Cutting,Grafting,Layering, Sexual Reproduction in Flowering Plants, Sexual Reproduction in Animals, Variation in Reproduction in Animals, Reproduction in Human Beings	Identification of Parenchyma, Collenchyma and Sclerenchyma tissues in plants, from prepared slides. Draw their labeled diagrams.
5.	**HALF YEARLY EXAMS**	**CHAPTER-2: Cell: The Building Block of Life** **CHAPTER-3: Tissues in Action** **CHAPTER-11: Reproduction: How Life Continues**	
6.	**OCTOBER**	**CHAPTER-12: Patterns in Life: Diversity and Classification** How do classify Organisms?, Need for Classification of Organisms, Five Kingdom Classification: Kingdom Monera Kingdom Protista Kingdom Fungi Kingdom Plantae Kingdom Animalia	Identification of striped, smooth and cardiac muscle fibres and nerve cells in animals, from prepared slides. Draw their labelled diagrams.
7.	**NOVEMBER**	**CHAPTER-12: Patterns in Life: Diversity and Classification** Adaptations of Outcomes of Structural Changes: The hierarchical nature of classification Scientific Naming - The binomial System.	Identification of striped, smooth and cardiac muscle fibres and nerve cells in animals, from prepared slides. Draw their labelled diagrams.
	WEEKLY TEST TERM II	**CHAPTER-12: Patterns in Life: Diversity and Classification** How do classify Organisms?,	

		Need for Classification of Organisms, Five Kingdom Classification: Kingdom Monera Kingdom Protista Kingdom Fungi Kingdom Plantae Kingdom Animalia	
8.	**DECEMBER**	**CHAPTER-13: Earth as a System: Energy, Matter and Life** Uneven Heating patterns on Earth,Solar radiation on earth, Biogeochemical Cycles,Human Impact on Earth's processes	Identification of striped, smooth and cardiac muscle fibres and nerve cells in animals, from prepared slides. Draw their labelled diagrams.
9.	**JANUARY**	**CHAPTER-13: Earth as a System: Energy, Matter and Life**	
10.	**FEBRUARY**	Revision	
	ANNUAL EXAMS	**Whole Syllabus**	

PHYSICS

MONTHS	CH. NO.	NAME OF THE CHAPTER	SUB TOPICS	NO. OF PERIODS
APRIL	**04**	**DESCRIBING MOTION AROUND US**	• 4.1 Motion in a straight line. • 4.1.1 Describing Position • 4.1.2 Distance travelled and Displacement • 4.1.3 Average speed and average velocity • 4.1.4 Average acceleration • 4.2 Graphical representation of motion • 4.2.1 Plotting graph • 4.2.2 Position-Time graphs • 4.2.3 Velocity-time graphs • 4.3 kinematic equations of motion in a straight line with constant acceleration • NCERT Numerical	**01** **01** **01** **01** **01** **01** **01** **01** **01** **01** **01** **Total=11**

I Written Test (18th May 2026)

Syllabus:

CHAPTER 4: DESCRIBING MOTION AROUND US (upto topic 4.3)

MONTHS	CH. NO.	NAME OF THE CHAPTER	SUB TOPICS	NO. OF PERIODS

MAY	**04**	**DESCRIBING MOTION AROUND US**	• 4.4 Motion in a plane • 4.4.1 Uniform circular motion • NCERT Numerical	**01** **01** **03** **Total=05**
JULY	**06**	**HOW FORCES AFFECTS MOTION**	• 6.1 The concept of force • 6.1.1 Measuring the magnitude of a force • 6.2 Balanced and unbalanced forces • 6.3 The force of friction: often overlooked but always present • 6.4 Newton's first law of motion • 6.5 Newton's Second law of motion • 6.6 Newton's third law of motion • 6.7 Forces acting on a system of objects • NCERT Numerical	**01** **01** **01** **01** **01** **01** **02** **01** **03** **Total=12**
II Written Test (3rd August 2026) **Syllabus:** **CHAPTER 4:** DESCRIBING MOTION AROUND US (topic 4.4) **CHAPTER 6:** HOW FORCES AFFECTS MOTION				
AUGUST-SEPT		**GRAVITATION**	**EXTRA TOPICS** • Gravitation • Universal law of gravitation • Free fall • Motion of objects under the influence of gravitational force of the earth. • Mass • Weight • Weight of an object on the moon • Thrust and pressure • Pressure in fluids • Buoyancy • Archimedes' principle	**01** **01** **01** **01** **01** **01** **01** **02** **01** **01** **Total=12**
HALF YEARLY EXAMINATION 2026-27 (2nd Week of September) **Syllabus:** **CHAPTER 4:** DESCRIBING MOTION AROUND US				

CHAPTER 6: HOW FORCES AFFECTS MOTION **EXTRA TOPIC :** GRAVITATION				
OCT -NOV	**07**	**WORK ,ENERGY AND SIMPLE MACHINES**	• 7.1 Work done by a Constant Force • 7.1.1 When is work done equal to zero? • 7.1.2 Positive and negative work done • 7.2 The Work –Energy Theorem • 7.3 Forms of Energy • 7.4 Mechanical Energy • 7.4.1 Kinetic Energy • 7.4.2Potential Energy • 7.4.3 Conservation of mechanical energy • 7.5 Power • 7.6 Simple Machines • 7.6.1 Pulley • 7.6.2 Inclined plane • 7.6.3 Lever • NCERT Questions	**01** **01** **01** **01** **01** **02** **02** **01** **03** **03** **Total=16**
Term-II Written test – December 12, 2026 **Syllabus:** **CHAPTER 7:** WORK ,ENERGY AND SIMPLE MACHINES				
DEC-JAN	**10**	**SOUND WAVES: CHARACTERISTICS AND APPLICATIONS**	• 10.1 Production of sound • 10.1.1 Tuning fork • 10.2 Propagation of sound • 10.2.1 Sound needs a medium to propagate • 10.3 Sound waves • 10.4 Energy of sound waves • 10.5 Graphical representation of a sound wave • 10.6 Characteristics of a sound wave • 10.6.1 Wavelength, Frequency and time period • 10.6.2 Amplitude and intensity of a sound	**01** **01** **01** **01** **01** **01** **02**

			wave • 10.6.3 speed of sound • 10.6.4 Human perception of sound • 10.7 Reflection of sound • 10.7.1 Echo • 10.7.2 Reverberation • 10.8 Ultrasonic and infrasonic waves and their applications • 10.8.1 Echolocation • NCERT numerical	**01** **01** **02** **02** **02** **Total=16**

ANNUAL EXAMINATION 2026-27

Syllabus:

CHAPTER 4: DESCRIBING MOTION AROUND US

CHAPTER 6: HOW FORCES AFFECTS MOTION

CHAPTER 7: WORK, ENERGY AND SIMPLE MACHINES

CHAPTER 10: SOUND WAVES: CHARACTERISTICS AND APPLICATIONS

LIST OF EXPERIMENTS IN PHYSICS

1.To determine of the density of solid (denser than water) by using a spring balance and a measuring cylinder.
2.Establishing the relation between the loss in weight of a solid when fully immersed in tap water.
3.Verification of the laws of reflection of sound.
4.To determine the velocity of sound using helical spring.

CHEMISTRY

	CHAPTER WITH SUBTOPICS	TOTAL PERIODS REQUIRED	MONTH
Chapter 5	**Exploring Mixtures and their Separation**	**[12+3]**	
Subtopics	Pure substance. ● Elements- Metal and their properties, Non-metal and their properties, and Metalloids. ● Compounds and their properties. 5.1 Mixture ● Homogeneous mixture. ● Heterogeneous mixture.	**2** **1** **2**	**06 April 2026 to 17 May 2026**

	WRITTEN TEST – 1 (18 May 2026) **SYLLABUS: Pure Substance and 5.1 Mixture**		
	5.2 Solutions ● 5.2.1 Concentration of solution 5.3 Methods of Separation of Homogeneous mixtures ● Crystallisation ● Distillation ● Paper Chromatography 5.4 Methods of Separation of Heterogeneous mixtures ● Sublimation ● Suspensions ● Colloids(Centrifugation & Coagulation) 5.5 Tyndall Effect **NCERT** question and answer discussion.	**2** **3** **3** **1** **1**	**18 May 2026 to 2 August 2026**
Chapter - 8	**Journey Inside the Atom**	**14**	
	8.1 Rediscovering the Roots of Atomic Theory 8.2 A Short Journey Through Atomic Models ● Thomson's Model of an atom ● Rutherford's Model of atom ● Bohr's Model of atom	**1** **1** **2** **1**	
	II Written Test (3 August 2026) **Syllabus: Chapter 5 (5.2, 5.3, 5.4 & 5.5) and Chapter 8 (8.1 & 8.2)**		
	8.3 Components contributing to the mass of an Atom ● Discovery of the Neutron 8.4 Symbols of Elements 8.5 Atomic Number 8.6 Mass Number 8.7 Distribution of electrons in Different energy levels 8.8 Valency 8.9 A Deeper Look into Atomic Structure **NCERT** question and answer discussion.	**1** **1** **1** **1** **1** **1** **2** **1**	**3 August to 5 September, 2026**
	HALF YEARLY EXAMINATION 2026-27 **(SECOND WEEK OF SEPTEMBER 2026 ONWARDS)** **(Syllabus: Chapter - 5 and Chapter - 8)**		
Chapter –9	Atomic Foundations of Matter	**14**	
	9.1 Law of Conservation of Mass 9.2 Law of Constant Proportions 9.3 Dalton's Atomic Theory 9.4 How Atoms combine? ● Covalent Bond (Molecules of elements, Molecules of Compounds & Naming covalent compounds) ● Ionic Bond (Naming Ionic Compounds)	**1** **1** **1** **4**	**5 October to 31 December,2026**
	II Term Written Test (28 December 2026) **Syllabus : Chapter – 9 (9.1, 9.2, 9.3 & 9.4)**		
	9.5 Writing Chemical formulae	**2**	

	9.6 Properties of the ionic and the Covalent Compounds 9.7 Molecular Mass of Covalent compounds 9.8 Formula Unit Mass of Ionic Compounds **NCERT** question and answer discussion.	**2** **1** **1** **1**	
	REVISION FOR ANNUAL EXAMINATION (2025-26) **Syllabus: Chapter – 5, 8 & 9**		**January 2027**

	CHAPTER WITH SUBTOPICS	**TOTAL PERIODS REQUIRED**	**MONTH**
Chapter 5	**Exploring Mixtures and their Separation**	**[12+3]**	
Subtopics	Pure substance. ● Elements- Metal and their properties, Non-metal and their properties, and Metalloids. ● Compounds and their properties. 5.1 Mixture ● Homogeneous mixture. ● Heterogeneous mixture.	**2** **1** **2**	**06 April 2026 to 17 May 2026**
	WRITTEN TEST – 1 (18 May 2026) **SYLLABUS: Pure Substance and 5.1 Mixture**		
	5.2 Solutions ● 5.2.1 Concentration of solution 5.3 Methods of Separation of Homogeneous mixtures ● Crystallisation ● Distillation ● Paper Chromatography 5.4 Methods of Separation of Heterogeneous mixtures ● Sublimation ● Suspensions ● Colloids(Centrifugation & Coagulation) 5.5 Tyndall Effect **NCERT** question and answer discussion.	**2** **3** **3** **1** **1**	**18 May 2026 to 2 August 2026**
Chapter - 8	**Journey Inside the Atom**	**14**	
	8.1 Rediscovering the Roots of Atomic Theory 8.2 A Short Journey Through Atomic Models ● Thomson's Model of an atom ● Rutherford's Model of atom ● Bohr's Model of atom	**1** **1** **2** **1**	
	II Written Test (3 August 2026) **Syllabus: Chapter 5 (5.2, 5.3, 5.4 & 5.5) and Chapter 8 (8.1 & 8.2)**		

	8.3 Components contributing to the mass of an Atom ● Discovery of the Neutron 8.4 Symbols of Elements 8.5 Atomic Number 8.6 Mass Number 8.7 Distribution of electrons in Different energy levels 8.8 Valency 8.9 A Deeper Look into Atomic Structure **NCERT** question and answer discussion.	**1** **1** **1** **1** **1** **1** **2** **1**	**3 August to 5 September, 2026**
	HALF YEARLY EXAMINATION 2026-27 (SECOND WEEK OF SEPTEMBER 2026 ONWARDS) (Syllabus: Chapter - 5 and Chapter - 8)		
Chapter –9	Atomic Foundations of Matter	**14**	**5 October to 31 December,2026**
	9.1 Law of Conservation of Mass 9.2 Law of Constant Proportions 9.3 Dalton's Atomic Theory 9.4 How Atoms combine? ● Covalent Bond (Molecules of elements, Molecules of Compounds & Naming covalent compounds) ● Ionic Bond (Naming Ionic Compounds)	**1** **1** **1** **4**	
	II Term Written Test (28 December 2026) Syllabus : Chapter – 9 (9.1, 9.2, 9.3 & 9.4)		
	9.5 Writing Chemical formulae 9.6 Properties of the ionic and the Covalent Compounds 9.7 Molecular Mass of Covalent compounds 9.8 Formula Unit Mass of Ionic Compounds **NCERT** question and answer discussion.	**2** **2** **1** **1** **1**	
	REVISION FOR ANNUAL EXAMINATION (2025-26) Syllabus: Chapter – 5, 8 & 9		**January 2027**