

CLASS XII SCIENCE SYLLABUS (2026-27)									
S NO.S	Subject Name Subject Name	PT 1 (30)	Half Yearly Exam (Practical) (20/30)Half Yearly Exam (Practical) (20/30)	Half Yearly Exam(Theory) (80/70)Half Yearly Exam(Theory) (80/70)	Pre Board (Practical) (20/30)Pre Board (Practical) (20/30)	Pre Board (Theory) (80/70)Pre Board (Theory) (80/70)	Activity	Text Book	
1	English	The Last Lesson Lost Spring My Mother at Sixty Six The Third Level Notice Writing Keeping quiet The tiger King Job application	Active participation during interactive sessionActive participation during interactive session Discipline, punctuality and regularity of home Discipline, punctuality and regularity of home Assignments and Class work copy	Flemingo- The Last Lesson Flemingo- The Last Lesson Lost Spring Deep Water The Rattrap Indigo My Mother at Sixty Six Keeping Quiet A Thing of Beauty Vistas- The Third Level Vistas- The Third Level The Tiger King Journey to the Ends of the Earth The Enemy On the Face of It Writing skills- Notice Writing skills- Notice Invitations and RepliesX Job Application Letter to the Editor, Article writing, Report Writing Reading skills- Unseen passage for comprehension	ASL	Whole syllabus	Group discussion Interactive session for conductingInteractive session for conducting ASL.	Business or official letter Speech Debate	Flemingo and Vistas
2	MATHEMATICS	UNIT3: MATRICES UNIT4:DETERMINANTS UNIT 5 :CONTINUITY AND DIFFERENTIABILITY	LAB MANUAL (5 MARKS) COPY ASSESSMENT (5 MARKS) CLASS TEST (10 MARKS)	UNIT1:RELATIONS AND FUNCTIONS UNIT 2:INVERSE TRIGONOMETRIC FUNCTIONS UNIT3: MATRICES UNIT4:DETERMINANTS UNIT 5 :CONTINUITY AND DIFFERENTIABILITY UNIT 6:APPLICATIONS OF DERIVATIVES UNIT7: INTEGRALS	AVERAGE OF PERIODIC TEST(10 MARKS) LAB MANUAL (5MARKS) VIVA(2MARKS) ACTIVITY (3 MARKS)	FULL SYLLABUS	LAB MANUALS	UNIT/CHAPTER Unit1: Relations and Functions 2. Inverse Trigonometric Functions Unit2: Algebra 1. Matrices 2. Determinants Unit-3: Calculus 1. Continuity and Differentiability 2. Applications of Derivatives 3. Integrals 4. Applications of the Integrals Unit-4: Vectors and ThreeDimensional Geometry 1. Vectors 2. Three - dimensional Geometry Unit-5: Linear Programming 1. Linear Programming Unit-6: Probability 1. Probability	NCERT
3	PHYSICS	ELECTROSTATICS , CURRENT ELECTRICITY	1. To determine resistivity of two / three wires by plotting a graph for potential difference versus current. 2.To verify the laws of combination(series/PARALLEL) of resistances using a metre bridge. 3.To determine the internal resistance of given primary cell using potentiometer. 4. To find the frequency of AC mains with a sonometer.	ELECTROSTATICS,CURRENT ELECTRICITY,MOVING CHARGES AND MAGNETISM, ELECTROMAGNETIC INDUCTION AND ALTERNATING CURRENT, ELECTROMAGNETIC WAVES,OPTICS	1. To determine resistivity of two / three wires by plotting a graph for potential difference versus current. 2. To find resistance of a given wire / standard resistor using metre bridge. 3. To verify the laws of combination (series) of resistances using a metre bridge. 4. To convert the given galvanometer (of known resistance and figure of merit) into a voltmeter of desired range and to verify the same. 5. To find the frequency of AC mains with a sonometer. 6. To find the value of v for different values of u in case of a concave mirror and to find the focal length. 9. To determine angle of minimum deviation for a given prism by plotting a graph between angle of incidence and angle of deviation. 10. To draw the I-V characteristic curve for a p- n junction diode in forward bias and reverse	ELECTROSTATICS,CURRENT ELECTRICITY, MOVING CHARGES & MAGNETISM ,ELECTRO MAGNETIC INDUCTION & ALTERNATINGCURRENT, ELECTROMAGNETICWAVES ,OPTICS.DUAL NATURE OF RADIATION & MATTER, ATOMS & NUCLEI, SEMICONDUCTOR (ELECTRONIC) DEVICES	1. To measure resistance, voltage (AC/DC), current (AC) and check continuity of a given circuit using multimeter. 2. To assemble a household circuit comprising three bulbs, three (on/off) switches, a fuse and a power source. 3. To draw the diagram of a given open circuit comprising at least a battery,resistor/rheostat, key, ammeter and voltmeter. Mark the components that are not connected in proper order and correct the circuit and also the circuit diagram 3. 4.To study effect of intensity of light (by varying distance of the source) on an LDR. 5. To observe refraction and lateral deviation of a beam of light incident obliquely on a glass slab. 6. To observe polarization of light using two Polaroids. Investigatory projet To study the variations in current flowing in a circuit containing an LDR because of a variation in (a) the power of the incandescent lamp, used to 'illuminate' the LDR (keeping all the lamps at a fixed distance). (b) the distance of a incandescent lamp (of fixed power) used to 'illuminate' the LDR.		Pradeep and NCERT

4	CHEMISTRY	L-1 Solutions L-2 Electrochemistry L-3 Chemical Kinetics	Volumetric Analysis Salt Analysis Content Based experiment project work class record and viva	L-1 Solutions L-2 Electrochemistry L-3 Chemical Kinetics L-4 d and f-Block Elements L-5 Coordination Compounds L-6 Haloalkanes and Haloarenes L-7 Alcohols, Phenols and Ethers	Volumetric Analysis Salt Analysis Content Based Experiment Project Work Class record and viva	Full Syllabus			NCERT
5	BIOLOGY	Chapter 1 Reproduction in Organisms Chapter 2 Sexual Reproduction in flowering plants Chapter 3 Human Reproduction chapter 4 Reproductive Health	Experiment 1 Prepare temporary mount of pollen germination. Experiment 2 Collect and study soil from at least two different sites & study them for texture, moisture, pH & water holding capacity. Experiment 3 Collect water from two different water bodies around you & study them for Ph & presence of living organisms. Experiment 4 Study the effect of different temperatures or different pH on the activity of salivary amylase on starch. Spotting 1 Flowers adapted to pollination by different agents (Wind, insects, birds). Spotting 2 Identification of stages of gamete development, TS of testes, TS of ovary through permanent slides. (grasshopper/mice) Spotting 3 TS of blastula through permanent slides. (Mammalian) Spotting 4 Common disease causing organisms- ascaris, entamoeba, plasmodium, any fungus causing ringworm through permanent slides/models/images. Comment on symptoms of diseases they cause. Spotting 5 Two plants and two animals (Models and virtual images) found in xeric conditions. Comment on adaptations.	Chapter 2 Sexual reproduction in flowering plants Chapter 3 Human Reproduction Chapter 4 Reproductive Health Chapter 5 Principles of inheritance and variation Chapter 6 Molecular basis of inheritance Chapter 7 Evolution chapter 8 Human health and diseases chapter 9 Strategies for enhancement in food production chapter 10 Microbes in human welfare chapter 11 Biotechnology principles and processes chapter 12 Biotechnology and its applications	Half yearly Practicals and the following: Experiment 1 Prepare temporary mount of onion root tip to study mitosis Experiment 2 Isolate DNA from available plant material like spinach, green pea seeds, papaya. Spotting 1 Meiosis in onion bud cells or grasshopper testes through permanent slides. Spotting 2 Prepared pedigree charts of any one of genetic traits i.e. rolling of tongue, blood group, earlobes, widow's peak and color blindness. Spotting 3 Two plants and two animals found in aquatic conditions. Comment on adaptations. Experiment 3 Population density and frequency Experiment 4 Particulate matter in the air	FULL SYLLABUS	Project based on NCERT topics selected by individual students.		NCERT
6	PHYSICAL EDUCATION	Unit- 1 Management of sporting events Unit -2 Children and women in sports Unit -3 Yoga as preventive measure for lifestyle disease		Unit- 1 Management of sporting events Unit -2 Children and women in sports Unit -3 Yoga as preventive measure for lifestyle disease Unit -4 Physical education & sports for CWSN Unit - 5 Sports and Nutrition	Physical activities, Practical file and viva	FULL SYLLABUS			S P physical education test book
7	INFORMATICS PRACTICES	Unit-2 SQL	Activity + viva	Unit-1 Data Handling Using Pandas Unit-2 SQL	Project and Viva	FULL SYLLABUS	Project		PREETI ARORA By SULTAN CHAND
	CO-SCHOLASTIC AREAS			Unit-3 Introduction to Computer Networks Unit-4 Societal Impacts					
1	General Studies (Value Education)						Article Writing, Poster Making on Social Issues		
2	Health & Physical Education						Surya Namaskar And Pranayam, Self- Defence Activities		
3	Work Experience (Art & SUPW)						ART - Make a chart on any of the given topics (Any Festival, Blood or Eye Donation, Water Conservation or Global Warming) SUPW - Gel Candle		