



# Doon Public School

A New Generation Sr. Sec. School | Affiliated to CBSE  
Sector 21, Panchkula - 134 112 (Haryana)

## Class- XI (Science) Syllabus for the Session 2026-27 English Core

Book Prescribed: NCERT			
	Months	Content	Learning Outcomes
TERM-I	April & May	Chapter No.1 : The Portrait of a Lady (Prose), Hornbill	<b>Students will be able to:</b> <b>Remember:</b> The key events , character sketch of grandmother, moral values, and message of the chapter <b>Understand:</b> The bonding between grandmother and Khushwant Singh, grandmother's love for animals <b>Apply:</b> Grand mothers' values, love for animals and adaptability in real life <b>Analyze:</b> The difference in village school education and city school education
		A Photograph (poem), Hornbill	<b>Students will be able to:</b> <b>Remember:</b> The theme, message and personal experiences of the poet <b>Understand:</b> The significance of photograph, poetic devices and the pain of losing mother <b>Apply:</b> The poem's theme in real life situation and valuing every moment <b>Analyze:</b> The events of mother's past and poet's past and how they create a beautiful bonding between mother and a daughter
		Creative Writing- Note Making	<b>Students will be able to:</b> <b>Remember:</b> The format of Note Making and key character of note making <b>Understand:</b> The importance of note-making in learning and retention <b>Apply:</b> Note making technique in various subjects for better understanding <b>Analyze:</b> The effectiveness of note making
		Chapter No.1: The Summer of the Beautiful White Horse (prose) Snapshots	<b>Students will be able to:</b> <b>Remember:</b> The story events, characteristics of Mourad and Aram and setting of the chapter <b>Understand:</b> The theme of honesty, family, morality through characters <b>Apply:</b> The decision making , overcoming dilemma and choosing the right path qualities in real life <b>Analyze:</b> The cultural values of the tribe
		Chapter No. 2: We aren't Afraid to Die... if We can be together (prose) Hornbill	<b>Students will be able to:</b> <b>Remember:</b> The message , character traits of all the characters and the events of the voyage <b>Understand:</b> The importance of family, courage and togetherness <b>Apply:</b> The moral values gained from the chapter in real life to create better family bonding <b>Analyze:</b> The days of January 3rd to January 5th and analyse the behaviour and support of every character
		Creative Writing- Classified Advertisement , Speech Writing	<b>Students will be able to:</b> <b>Remember:</b> The format of advertisement and speech writing <b>Understand:</b> The purpose and structure of a classified advertisement and coherence in speech writing <b>Apply:</b> The writing skills in real life situation <b>Analyze:</b> The importance of correct format and content

## Physics

Book Prescribed: NCERT			
	Months	Content	Learning Outcomes
TERM-I	April & May	Chapter 1: Units and Measurements	<b>Students will be able to:</b> <b>Remember:</b> Need for measurement and systems of units <b>Understand:</b> Concept of SI units, fundamental ,derived units and significant figures <b>Apply:</b> Concept of dimensions of physical quantities to dimensional analysis and its applications <b>Analyze:</b> Concept of the uncertainty in result to explore accuracy and precision
		Chapter 2: Motion in a Straight Line	<b>Students will be able to:</b> <b>Remember:</b> Frame of reference and concept of one-dimensional motion using position-time and velocity-time graphs <b>Understand:</b> Concept of average speed, average velocity, and instantaneous velocity to solve numerical problems <b>Apply:</b> Concept of 2D motion on graphical interpretation of motion and hence solve related problems <b>Analyze:</b> Basic differentiation and integration concepts to derive equations of motion under uniform acceleration
		Chapter 3: Motion in a Plane	<b>Students will be able to:</b> <b>Remember:</b> Scalar and vector quantities with examples and identify vector notations <b>Understand:</b> Vector operations and resolve vectors into components using graphical and analytical methods <b>Apply:</b> Motion in a plane concept to the cases of uniform velocity, uniform acceleration- projectile motion and uniform circular motion <b>Analyze:</b> Resolution of a vector in a plane in its rectangular components to compute Scalar and Vector product of vectors

## Chemistry

Book Prescribed: NCERT			
	Months	Content	Learning Outcomes
Term-I	April & May	Chapter No. 1:  Some Basic Concepts of Chemistry	<b>Students will be able to:</b> <b>Remember:</b> The concept of mole, molar mass, and significant figures <b>Understand:</b> The laws of chemical combination and mole concept <b>Apply:</b> The concept in solving numerical problems on mass, mole, and volume <b>Analyze:</b> The limiting reagent and percentage yield in reactions
		Chapter No. 2: Structure of Atom	<b>Students will be able to:</b> <b>Remember:</b> The atomic models and subatomic particles <b>Understand:</b> The Bohr's model and quantum numbers <b>Apply:</b> The knowledge to write electronic configurations using rules <b>Analyze:</b> The different atomic models and their limitations
		Chapter No. 3: Classification of Elements and Periodicity in Properties	<b>Students will be able to:</b> <b>Remember:</b> The modern periodic law and periodic table structure <b>Understand:</b> The periodic trends in properties <b>Apply:</b> The knowledge to predict element properties based on position <b>Analyze:</b> The trends and justify periodic behaviour

## Biology

**Books prescribed- NCE`RT**

	Months	Content	Learning Outcomes
<b>Term -I</b>	<b>April &amp; May</b>	Chapter No. 1: The Living World	<b>Students will be able to:</b> <b>Remember:</b> The characteristics of living organisms, biodiversity term. <b>Understand:</b> Taxonomic hierarchy and need for classification. <b>Apply:</b> The gained knowledge to identify living vs non-living based on characteristics. <b>Analyze:</b> The importance of taxonomy in studying biodiversity
		Chapter No. 2 : Biological Classification	<b>Students will be able to:</b> <b>Remember:</b> Five kingdom classification, characteristics of Monera, Protista, Fungi. <b>Understand:</b> Basis of classification and evolution. <b>Apply:</b> The gained knowledge to classify organisms into kingdoms. <b>Analyze:</b> The comparison of kingdoms based on features.
		Chapter No.3: Plant kingdom	<b>Students will be able to:</b> <b>Remember:</b> The characteristics of algae, bryophytes, pteridophytes, gymnosperms. <b>Understand:</b> The classification based on reproduction and body organization. <b>Apply:</b> The gained knowledge to identify different plant groups in surroundings. <b>Analyze:</b> Life cycles and evolutionary trends in plant groups.
		Chapter No. – 4 Animal Kingdom	Students will be able to: <b>Remember:</b> Basis of classification and phyla characteristics. <b>Understand:</b> Differences among chordates and non- chordates. <b>Apply:</b> The gained knowledge to classify animals based on features. <b>Analyze:</b> Evolutionary relationship among organisms.
		Chapter No. – 5 Morphology of Flowering Plants	Students will be able to: <b>Remember:</b> Parts of plants and types of root, stem and leaves. <b>Understand:</b> Modifications and functions of plant parts. <b>Apply:</b> The identification of plant parts in real specimens. <b>Analyze:</b> Comparison of morphological adaptations.

## Mathematics (041)

**Book Prescribed: NCERT**

	Months	Content	Learning Outcomes
<b>Term -I</b>	<b>April &amp; May</b>	Chapter No. –5 Complex Numbers and Quadratic Equations	<b>Students will be able to:</b> <b>Remember:</b> Real Number System <b>Understand:</b> Need for complex numbers <b>Apply:</b> Algebraic properties of complex numbers <b>Analyze:</b> Argand plane and polar representation of complex numbers. Statement of Fundamental Theorem of Algebra, solution of quadratic equations (with real coefficients) in the complex number system.
		Chapter No. – Ch- 9 Sequences and Series	<b>Students will be able to:</b> <b>Remember:</b> Sequence and Series <b>Understand:</b> Arithmetic Mean (A.M.) Geometric Progression (G.P.), general term of a G.P <b>Apply:</b> The gained knowledge to calculate the sum of n terms of a G.P., arithmetic mean and geometric mean <b>Analyze:</b> Relation between A.M. and G.M

## Computer Science

Book Prescribed: Computer Science with Python (Sumita Arora by Dhanpat Rai Publication)			
	Months	Content	Learning Outcomes
Term-I	April & May	Chapter No. 1: Computer System Organization	<p><b>Students will be able to:</b></p> <p><b>Remember:</b> Key components of a computer system and recall basic terminology related to computer architecture</p> <p><b>Understand:</b> The function of each component in a computer system</p> <p><b>Apply:</b> The acquired knowledge to demonstrate how different units (input, processing, output, storage) work together in real-life scenarios</p> <p><b>Analyze:</b> The difference between primary and secondary memory in terms of speed and use</p>
		Chapter No. 2: Data Representation	<p><b>Students will be able to:</b></p> <p><b>Remember:</b> Number systems such as binary, decimal, octal, and hexadecimal and their inter conversion</p> <p><b>Understand:</b> The conversion process between number systems and interpret binary codes and ASCII values for characters</p> <p><b>Apply:</b> The gained knowledge to convert numbers between binary, decimal, octal, and hexadecimal systems</p> <p><b>Analyze:</b> Different number systems in terms of usage and efficiency</p>
		Chapter No. 3 : Boolean Logic	<p><b>Students will be able to:</b></p> <p><b>Remember:</b> Definition of Boolean logic and its basic operations (AND, OR, NOT) ; Recall truth tables for basic Boolean operations and list Boolean laws and identities (e.g., De Morgan's Theorems)</p> <p><b>Understand:</b> The function of each Boolean operator and interpret truth tables and Boolean expressions</p> <p><b>Apply:</b> Boolean logic in real-world scenarios such as conditional programming and logic gates</p> <p><b>Analyze:</b> Digital circuits or logical conditions using Boolean expressions</p>

## Physical Education

Book Prescribed: SP Book			
	Months	Content	Learning Outcomes
TERM-I	April & May	UNIT-1 Changing Trends and Career in Physical Education	<p><b>Students will be able to:</b></p> <p><b>Remember:</b> The definition of physical education and its importance</p> <p><b>Understand:</b> How physical education has evolved over the years and the qualifications and skills required for various careers</p> <p><b>Apply:</b> The gained knowledge of fitness trends to create a basic fitness routine</p> <p><b>Analyze:</b> Traditional and modern approaches to physical education and how global trends are shaping career opportunities in choosing physical education as a profession</p>
		UNIT-2 Olympic Value Education	<p><b>Students will be able to:</b></p> <p><b>Remember:</b> The history and origin of the Olympic Games and the important Olympic movements and personalities and symbols of the olympic</p> <p><b>Understand:</b> The meaning and importance of each Olympic value and understand the role of sports in character and moral development</p> <p><b>Apply:</b> Olympic values in school or sports activities and organize small games or events that reflect Olympic spirit and values</p> <p><b>Analyze:</b> Real-life examples where sports helped overcome conflict or brought social change and evaluate how effectively Olympic values are practiced in modern sports</p>

## Painting

**Book Prescribed: An Introduction of Indian Art Part -1 +Panoramic Indian Painting + A2 Size Practical Files-2**

	Months	Content	Learning Outcomes
<b>TERM-I</b>	<b>April &amp; May</b>	Chapter No. : Fundamentals of Art	Students will be able to: <b>Remember:</b> The key elements and principles of art, including line, shape, form, space, texture, value, and colour <b>Understand:</b> How artists use these fundamentals to communicate meaning and explain the significance and function of various elements in artistic composition <b>Apply:</b> The acquired knowledge to demonstrate the use of basic elements and principles in creating simple art compositions <b>Analyze:</b> How the fundamentals are employed across various styles and periods of art.
		Chapter No. : The Pre-Historic rock Paintings	<b>Students will be able to:</b> <b>Remember:</b> The major prehistoric sites and examples of rock art in India and globally and recall the historical timeline and cultural context of prehistoric paintings <b>Understand:</b> The materials, tools, and techniques used by prehistoric artists <b>Apply:</b> The acquired knowledge to recreate a composition inspired by Pre-Historic rock painting techniques using natural or traditional materials <b>Analyze:</b> The cultural and historical significance of rock art in early human civilizations

## Hindustani Music Vocal

**Book Prescribed: Sangeet Anand + Sangeet Shelly Practical File (Unique Publications)**

	Months	Content	Learning Outcomes
<b>TERM-I</b>	<b>April &amp; May</b>	Unit 1 Naad, Shruti, Swar, Saptak, Thaat, Jaati, Laya, Taal, Margi Sangeet Desi Sangeet, Raga.	<b>Students will be able to:</b> <b>Remember:</b> Key terms related to Hindustani Music (e.g., raga, tala, swara, laya) <b>Understand:</b> Basic terms of Indian Classical Music <b>Apply:</b> The gained understanding of Swaras and Talas to create different types of compositions in Indian classical Music <b>Analyze:</b> The structure and composition of Hindustani Music pieces
		Unit 4 Description of prescribed Talas (Teentala, Ektala) with Tala Notation in Thah, Dugun, and Chaugun Knowledge of the structure of Tanpura	<b>Students will be able to:</b> <b>Remember:</b> The prescribed notation system of Ektaal, Teentala along with their Layakarries ; The structure of Tanpura <b>Understand:</b> The concept of Thah, Dugun and Chaugun in Hindustani Music <b>Apply:</b> The acquired knowledge of Talas and rhythmic patterns in vocal performances <b>Analyze:</b> Different Talas and their applications and the importance of Tanpura in Hundustani Music

		Unit 2: Brief history of Khayal Brief study of Dhrupad and Tarana .	<p><b>Students will be able to:</b></p> <p><b>Remember:</b> Key features and historical background of Dhrupad Khayal and Tarana</p> <p><b>Understand:</b> The description of role of each form in Hindustani Music</p> <p><b>Apply:</b> The knowledge of these forms in vocal performances</p> <p><b>Analyze:</b> The significance of each form in Hindustani Music's development</p>
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## Web Application

Book Prescribed: CBSE Resources			
	Months	Content	Learning Outcomes
<b>TERM-I</b>	<b>April &amp; May</b>	Chapter No. :1 (Part-A) Communication Skills-III	<p><b>Students will be able to:</b></p> <p><b>Remember:</b> The definition of communication, types of communication</p> <p><b>Understand:</b> The importance of communication, barriers to communication</p> <p><b>Apply:</b> The gained knowledge to apply communication skills and communication techniques in real-life situations</p> <p><b>Analyze:</b> Different communication styles, analyzing effective and ineffective communication</p>
		Chapter No. : 2 (Part-B) Website Building Using HTML and CSS	<p><b>Students will be able to:</b></p> <p><b>Remember:</b> Basic tags and elements of HTML, basic properties and selectors of CSS</p> <p><b>Understand:</b> The structure of a web page</p> <p><b>Apply:</b> The acquired knowledge to create simple web pages using HTML, Style web pages (using CSS) to make them visually appealing</p> <p><b>Analyze:</b> Different errors in HTML and CSS code and the way to fix them</p>
		Chapter No. :1 (Part-B) : Basics of Networking	<p><b>Students will be able to:</b></p> <p><b>Remember:</b> Computer network and types of networks, network devices</p> <p><b>Understand:</b> The purpose and benefits of networking</p> <p><b>Apply:</b> The acquired knowledge to determine the best network type for a given scenario (e.g., school vs. city-wide office)</p> <p><b>Analyze:</b> The advantages and disadvantages of various topologies.</p>

## Yoga

Book Prescribed: CBSE			
	Months	Content	Learning Outcomes
<b>TERM-I</b>	<b>April &amp; May</b>	Unit-1  Introduction to Yoga (Yoga)	<p><b>Students will be able to:</b></p> <p><b>Remember:</b> Define the term Yoga, its origin, history, and development in India. Recall various yogic practices, their types, and important texts such as Patanjali Yoga Sutras and the Bhagavad Gita.</p> <p><b>Understand:</b> Explain the meaning, purpose, and importance of Yoga for physical, mental, and spiritual well-being. Understand the role of Yoga in holistic health and its significance in daily life.</p> <p><b>Apply:</b> Demonstrate selected yogic practices including simple asanas, pranayama techniques, meditation, and relaxation methods. Develop a personal yoga routine and apply breathing techniques to reduce stress and improve lifestyle and habits.</p> <p><b>Analyze:</b> Analyze the impact of Yoga on stress and lifestyle diseases. Compare Yoga with other forms of physical exercise. Evaluate the benefits of asanas and pranayama, their effects on body systems, and the role of yogic diet and discipline in enhancing overall performance.</p>
		UNIT-1 Communication Skills-III (Employability skill)	<p><b>Students will be able to:</b></p> <p><b>Remember:</b> The types, the elements of the communication process, the 7 Cs of effective communication and barriers to communication</p> <p><b>Understand:</b> The importance of effective communication in daily life and the workplace, non-verbal communication cues and the difference between formal and informal communication</p> <p><b>Apply:</b> Effective communication in role-plays and presentations using proper tone, pitch, and body language</p> <p><b>Analyze:</b> The difference between effective and ineffective communication styles, real-life or simulated scenarios to identify communication gaps or breakdowns and the impact of communication barriers on relationships or work performance</p>

## Library & Information Science

Book Prescribed: CBSE			
	Months	Content	Learning Outcomes
<b>TERM-I</b>	<b>April &amp; May</b>	Chapter No. : Communication Skills-III (Employability Skills)	<p><b>Students will be able to:</b></p> <p><b>Remember:</b> The do's and don't of good communication</p> <p><b>Understand:</b> The importance of good communication to enhance personality</p> <p><b>Apply:</b> The skill of communication for impactful conversation</p> <p><b>Analyze:</b> The need of good communication in one's life</p>
		Chapter No. : Library Information and Society - Role and its implications	<p><b>Students will be able to:</b></p> <p><b>Remember:</b> The key terms like library, information, society, and knowledge economy</p> <p><b>Understand:</b> The role of libraries in social, educational, and cultural development</p> <p><b>Apply:</b> The gained knowledge to demonstrate how libraries support digital literacy and lifelong learning</p> <p><b>Analyze:</b> How societal changes (technology, economy, education) impact libraries</p>

## Marketing

Book Prescribed: CBSE Notes			
	Months	Content	Learning Outcomes
<b>TERM-I</b>	<b>April &amp; May</b>	Unit-1 Introduction to Marketing	<p><b>Students will be able to:</b></p> <p><b>Remember:</b> Meaning of marketing, market, customer, marketing mix (4Ps), functions of marketing</p> <p><b>Understand:</b> Difference between selling and marketing; concept of customer satisfaction and modern marketing</p> <p><b>Apply:</b> The gained knowledge to identify marketing strategies used by companies in real life</p> <p><b>Analyze:</b> Marketing mix (Product, Price, Place, Promotion) of different products</p>
		Unit I- Communication Skills  (Employability Skills)	<p><b>Students will be able to:</b></p> <p><b>Remember:</b> The key terms like verbal, non-verbal, written, and visual communication</p> <p><b>Understand:</b> The importance of tone, clarity, listening, and feedback in effective communication</p> <p><b>Apply:</b> Proper communication in real-life banking scenarios (e.g., dealing with customers)</p> <p><b>Analyze:</b> The communication barriers and suggest improvements</p>

