



Rukmani Birla Modern High School
Syllabus for PA IV
Session 2024-25
Class I

Subject	Syllabus
English	Lesson : 9 Cleaning the Playground Lesson : 10 Jijo and Elly Lesson : 11 Sera Learns to Fly Gr- Simple Present Tense Present Continuous Tense Preposition Conjunction Poem Extract
EVS	Lesson : 12 Safety Rules Lesson : 13 Fascinating World of Plants Lesson : 14 Amazing World of Animals Lesson :15 The Sky Around Us
Hindi	साहित्य - पाठ-10 जानवरों की रेलगाड़ी पाठ-12 बालू का घर व्याकरण - दिनों और महीनों के नाम गिनती विशेषण क्रिया अपठित गद्यांश
Maths	Lesson :7 Measurement Lesson : 10 Money Lesson :11 Time
Computer	Lesson : 5 Using a mouse Lesson : 6 Introduction to Rapid typing Lesson : 7 Introduction to paint Lesson : 8 Introduction to Tux paint
FA	Animal - Tiger Money Currency Master Artist- Wassily Kandinsky Landscape



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Class II

Subject	Syllabus
English	Literature:- Lesson : 8 Owl and The Moon Lesson : 9 Jane And The Chimps Lesson: 10 A Very Special Thing Grammar:- Conjunctions Adverb Tenses (Simple Present, Present Continuous and Simple Past Tense) Unseen Passage Creative Writing
EVS	Lesson:14 The World of animals Lesson: 15 Weather and Seasons Lesson:17 Our Home Earth Lesson:18 Time and Directions
Hindi	साहित्य – पाठ- 12 पहली उड़ान पाठ-14 बगुला भगत पाठ-15 बोतल में जिन्न व्याकरण – क्रिया पर्यायवाची शब्द, विलोम शब्द अपठित गद्यांश, चित्र वर्णन
Maths	Lesson:9 Time Lesson:10 Money Lesson:11 Measurements
FA	Animal - Dog Underwater World - Fish Master Artist - Romero Britto Landscape - Snowscape
Computer	Lesson : 5 Using a mouse and a keyboard Lesson : 6 Typing in WordPad Lesson: 7 More on Paint and Paint 3D Lesson : 8 More on Tux Paint



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Class III

Subject	Syllabus
Hindi	साहित्य पाठ - 11 गिलहरी के बच्चे पाठ - 12 माऊंट आबू की सैर पाठ - 14 हवेंग तूड की चतुराई पाठ - 15 उद्यमी लड़का व्याकरण पाठ - 10 काल पाठ - 13 विलोम शब्द पाठ - 15 अनेकार्थी पाठ - 16 विराम चिह्न पाठ - 17 मुहावरे औपचारिक पत्र, चित्रकथा लेखन , अपठित गद्यांश, अपठित पद्यांश,
English	Literature- Lesson : 8 Afraid of the Dark Lesson : 10 The Storm at Night Lesson : 11 The Granddad and the Dandelion Grammar- Simple Past tense , Future tense, Adverb and its kinds (manner, time, place), Subject and Predicate Creative Writing- Informal Letter, Paragraph writing (changing the ending with cues), Unseen Passage, Unseen Poem
Science	Lesson : 11 Light, Sound and Force Lesson : 12 Air, Water and Weather Lesson: 13 The Sun, Moon and Stars Lesson : 14 Our Earth
Mathematics	Lesson : 2 Addition (story sums) Lesson : 3 Subtraction (story sums) Lesson : 4 Multiplication (story sums) Lesson : 7 More Division (story sums) Lesson : 9 Money Lesson : 10 Time Lesson : 11 Measurements
Social Science	Lesson :16 My India-- Food and Clothes Lesson : 18 National Symbols Lesson :19. Our Government Lesson :21 Mumbai Lesson :22 Kolkata
Computer	Lesson : 5 Working with Paint 3D Lesson : 6 Stepwise Thinking

	<p>Lesson: 7 Introduction to Scratch Programming</p> <p>Lesson : 8 Internet - An Introduction</p> <p>Lesson : 9 Introduction to Robotics</p>
General Knowledge	<p>Page Number 42,43,48,52,53,56,57,59,60 and 65</p> <p>Notebook Work – Current Affairs (October, November and December)</p> <p>Logical reasoning, Important dates and events and The Universe</p>
Fine Arts	<p>Animal - Elephant</p> <p>Bird – Parrot</p> <p>Master Artist - Paul Klee</p> <p>Landscape – Meadow</p>



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Class IV

Subject	Syllabus
Hindi	<p>*साहित्य*</p> <p>पाठ-12 शीत निद्रा पाठ-14 राधिका मौसी पाठ-15 सतीश का साहस पाठ-17 कर्तव्यशील आरुणि</p> <p>*व्याकरण*</p> <p>पाठ -10 विशेषण पाठ-12 काल पाठ-18 विराम चिह्न पाठ -19 अशुद्धि शोधन पाठ - 20 मुहावरे</p> <p>रचनात्मक लेखन- अनुच्छेद लेखन, संवाद लेखन, अपठित गद्यांश, अपठित पद्यांश</p>
English	<p>Literature Lesson : 8 Chips Lesson :10 Black Blizzard Lesson : 11 The Boat Song Poem : Singing Secrets Grammar Present and past progressive, The Past, Kinds of sentences, Subject Verb Agreement Creative Writing Informal Letter, Story Writing (with visual cues), Unseen Passage, Unseen Poem</p>
Science	<p>Lesson : 10 How Animals Survive Lesson :11 Force, Work and Energy Lesson :12 Air, Water and Weather Lesson :13 The Solar System Lesson :14 Keeping Our Earth Green</p>
Mathematics	<p>Lesson : 5 Multiples and Factors Lesson : 9 Decimal Numbers Lesson : 10 Money Lesson : 12 Perimeter Lesson : 13 Time (only concept of 24 - hour clock)</p>
Social Science	<p>Lesson : 14 Emperor Shah Jahan Lesson : 15 Chhatrapati Shivaji Maharaj</p>

	<p>Lesson : 16 Transport and Communication</p> <p>Lesson : 17 Organizations That Help Us</p> <p>Lesson : 19 Elections</p>
Computer	<p>Lesson : 6 Introduction to Power Point 2016</p> <p>Lesson :7 More on Power Point 2016</p> <p>Lesson : 8 Blocks in Scratch</p> <p>Lesson : 9 Drawing Shapes in Scratch</p> <p>Lesson :10 More on Internet</p> <p>Lesson : 11 Categories of Robots</p>
General Knowledge	<p>Page no- 40,42,43,44,47,48,50,51,52,53,57,58,61,62, 63,64</p> <p>All work done in the notebook</p>
Fine Arts	<p>Animal - Tiger</p> <p>Bird - Rooster</p> <p>Master Artist - Yayoi Kusama</p> <p>Landscape - Desert</p>



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Class V

Subject	Syllabus
Hindi	पाठ -14 हिमालय की एक घटना पाठ - 15 हेलेन केलर पाठ - 16 एकाग्रता की जाँच पाठ -18 गांधी जी की प्रतिज्ञा व्याकरण पाठ - 8 विशेषण पाठ - 9 क्रिया पाठ - 12 शब्द भंडार (अनेकार्थी शब्द, श्रुतिसम भिन्नार्थक शब्द, वाक्यांश के लिए एक शब्द) एक से दस तक याद करें। पाठ - 13 मुहावरे और लोकोक्ति(1-10 तक) पाठ -14 विराम चिह्न रचनात्मक लेखन- कहानी लेखन, संवाद लेखन, अपठित गद्यांश, अपठित पद्यांश
English	Literature- Chapter :8 One Friday Morning Chapter : 10 Maui's Kite Chapter :11 The Strange Case of Dr Jekyll and Mr Hyde Poem : Ring Out Wild Bells Grammar- Present and past perfect tense, Present perfect progressive tense, Mixed tenses, Reported speech, Prepositions Creative Writing- Description of a place, Informal letter, Formal letter, Unseen passage, Unseen poem
Science	Lesson :7 Skeletal System and Nervous System Lesson :11 Earth, Sun and Moon Lesson :12 Light and Shadow Lesson :13 Volcanoes, Earthquakes and Tidal Waves Lesson :14 Our Environment
Mathematics	Lesson : 4 Factors and Multiples Lesson: 5 Fractions Lesson : 6 Decimal Numbers Lesson : 8 Geometry Lesson : 10 Perimeter and Area Lesson :11 Time, Speed and Temperature
Social Science	Lesson : 16 The Freedom Struggle: The Gandhian Phase (1919-47) Lesson :18 Religious and Social Reformers Lesson : 19 The Indian Government Lesson :20 Our Rights and Duties

	Lesson :21 The United Nations
Computer	Lesson :7 More on Scratch Lesson : 8 Creating Games in Scratch Lesson :9 Computer Malwara Lesson : 10 Internet and E- Mail Lesson :11 Evolution of Artificial Intelligence
General Knowledge	Page no.-38,39,40,41,42,43, 45,46,47,48,49,50,54,55,59,60, 62 All work done in notebook
Fine Arts	Animal - Giraffe Bird – Swan Master Artist- S. H. Raza Landscape - Riverside



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Class VI

Subject	Syllabus
English	<p>Literature</p> <p>Chapter 7 -Saving the Tiger Poem - After the Storm Chapter 8 -Mr Young’s Car Chapter 9 -A New Name Poem- Four Little Foxes Chapter 11- Winter Oak Poem- Past, Present, Future</p> <p>Grammar</p> <ul style="list-style-type: none">• Compound Adjectives and Order of Adjectives• Degrees of Comparison• Adverbs, Articles, Determiners, Prepositions• Conjunctions- Coordinating and Subordinating• Phrases and Clauses• Subject – Verb Agreement• Direct and Indirect Objects• Direct and Indirect Speech• Question Tags <p>Creative Writing</p> <ul style="list-style-type: none">• Essay Writing• Story Writing• Poster <p>Comprehension Passage</p>
Science	<p>Chapter-5 Body Movements Chapter-6 The Living Organisms – Characteristics and Habitats Chapter- 8 Light, Shadows and Reflections Chapter-9 Electricity and Circuits Chapter-10 Fun with Magnets Chapter-11 Air Around Us</p>
Social Science	<p>(History) Chapter -6 New Questions and Ideas Chapter -9 New Empires and Kingdoms Chapter -10 Buildings, Paintings and Books (Geography) Chapter -5 Major Domains of the Earth Chapter – 6 Our Country India (Civics) Chapter -5 Rural Administration Chapter -6 Urban Administration Chapter -8 Urban Livelihood</p>
Sanskrit	<p>पुस्तक - दिव्यम् - भाग-1 पाठ - 12 करण कारकः (तृतीया विभक्तिः) पाठ - 13 सम्प्रदान कारकः (चतुर्थी विभक्तिः) पाठ - 14 अपादान कारकः(पंचमी विभक्तिः) पाठ - 15 संबंध कारकः(षष्ठी विभक्तिः)</p>

	<p>पाठ - 16 अधिकरण कारक:(सप्तमी विभक्तिः)</p> <p>पाठ - 17 सम्बोधनम्</p> <p>पाठ -18 लृट् लकारः</p> <p>शब्द रूप- बालक, लता ,फल</p> <p>धातु रूप -पठ्, लिख् (लट् और लृट् लकार में)</p>
French	<p>L-5 La chambre d'Alain</p> <p>L-6 Le ciel bleu, le parc vert</p> <p>L-7 C'est le week-end !</p> <p>L-8 Une sortie entre amis</p> <p>L-9 Où habites - tu?</p> <p>L-10 La famille d'Alain</p> <p>Comprehension, Writing Skills, Grammar and Culture and Civilization.</p>
Hindi	<p>वसंत भाग-1</p> <p>पाठ 9 जो देखकर भी नहीं देखते</p> <p>पाठ 10 संसार पुस्तक है</p> <p>पाठ 11 में सबसे छोटी होऊँ</p> <p>पाठ 12 लोकगीत</p> <p>पाठ 13 नौकर</p> <p>पाठ 14 वन के मार्ग में</p> <p>व्याकरण</p> <p>विशेषण , क्रिया, क्रिया विशेषण , काल</p> <p>मुहावरे(1-15) लोकोक्तियाँ (1-10)</p> <p>अशुद्ध वाक्यों का संशोधन</p> <p>विराम चिह्न , विलोम शब्द(1-25) , अनेकार्थी शब्द(1-15)</p> <p>रचनात्मक लेखन</p> <p>अनुच्छेद लेखन , चित्र वर्णन</p> <p>अपठित गद्यांश और पद्यांश</p> <p>बाल रामकथा- 6-12</p>
Mathematics	<p>Chapter 4 - Basic Geometrical Ideas</p> <p>Chapter 6 - Integers</p> <p>Chapter 7 – Fractions</p> <p>Chapter 8 – Decimals</p> <p>Chapter 10 – Mensuration</p> <p>Chapter 11 – Algebra</p> <p>Chapter 12 – Ratio and Proportion</p>
Computer	<p>Chapter - 3 Pencil2D</p> <p>Chapter – 6 Cloud Computing</p> <p>Chapter - 8 Python - Introduction</p> <p>Chapter - 9 Chatbot</p>
Fine Arts	<p>World Art - Egyptian Face</p> <p>Indian Art - Gond Art</p> <p>Flowers - Tulip</p> <p>Landscape - Forest</p>



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Class VII

Subject	Syllabus
English	<p>Literature</p> <p>Chapter- 6. The Wolves of Cernogratz Poem - The Mother Bird Chapter- 7. The Scholarship Jacket Chapter- 8. My Unknown Friend Poem -A Sea of Foliage Poem- Heart Wood Chapter- 10. The Enchanted Pool Chapter- 11. The Play (play)</p> <p>Grammar</p> <ul style="list-style-type: none">• Phrases and Clauses• Nouns and Noun Phrases• Prepositions and Prepositional Phrases• Adverbs and Adverbials• Coordinating and Subordinating Conjunctions• Simple, Compound and Complex Sentences• Relative Clauses• Adverbial Clauses• Conditionals• Kinds of Sentences• Subject Verb Agreement• Direct and Indirect Speech• Indirect Questions <p>Creative Writing</p> <ul style="list-style-type: none">• Advertisements• Article for School Magazine• Factual Description of an Event• Persuasive Essay <p>Comprehension Passage</p>
Science	<p>Chapter-6 Respiration in Organisms Chapter-7 Transportation in Animals and Plants Chapter-8 Reproduction in Plants Chapter-9 Motion and Time Chapter-10 Electric Current and Its Effects Chapter-12 Forest :Our Life Line Chapter-13 Waste Water Story</p>
Social Science	<p>(History) Chapter -5 Tribes, Nomads and Settled Communities Chapter – 6 Devotional Paths to Divine Chapter -8 Eighteenth-Century Political Formation (Geography) Chapter -5 Water Chapter -6 The Tropical and The Sub-tropical Region Chapter -7 Life in Desert</p>

	<p>(Civics) Chapter -6 Understanding Media Chapter -7 Market Around Us</p>
Sanskrit	<p>पुस्तक - दिव्यम् - भाग-2 पाठ - 11 - सूक्ति पुष्पाञ्जलि: पाठ - 12 - मम देशः महान् पाठ - 13-उद्यमेन हि सिध्यन्ति कार्याणि पाठ - 14 - लक्ष्यनिर्धारणस्य महत्त्वम् पाठ - 15 - शाकानां चिन्ता पाठ - 16 - विनोद कणिका: शब्द रूप - नदी, हरि, किम्(तीनों लिंग में) धातुरूप - पठ्, हस(विधिलिङ्ग लकार),लिख्,नम्(लोट्, लङ् लकार) अपठित गद्यांश, चित्रवर्णनम्</p>
French	<p>L-4 Les animaux du zoo L-6 Au travail ! L-7 Chez Clara L-8 La maison de Marie L-9 Bon appétit ! L-10 Ma ville, mon quartier Comprehension, Writing Skill, Grammar and Culture and Civilization</p>
Hindi	<p>वसंत भाग -2 पाठ -9 एक तिनका पाठ- 10 खानपान की बदलती तस्वीर पाठ- 11 नीलकंठ पाठ -12 भोर और बरखा पाठ- 13 वीर कुंवर सिंह पाठ -14 संघर्ष के कारण मैं तुनुक मिजाज हो गया पाठ -15 आश्रम का अनुमानित व्यय व्याकरण- 1 उपसर्ग-प्रत्यय 2 विशेषण 3 क्रिया विशेषण 4 कारक 5 समास 6 अनेकार्थी शब्द 1- 10 7 अनेक शब्दों के लिए एक शब्द 1-25 8 मुहावरे 1- 20 लोकोक्तियाँ 1 -15 अपठित गद्यांश-पद्यांश रचनात्मक लेखन - 1 अनुच्छेद लेखन</p>

	2 पत्र लेखन 3 कहानी लेखन 4 विज्ञापन लेखन 5 सूचना लेखन बाल महाभारत कथा (21-41)
Mathematics	Chapter – 2 Fractions and Decimals Chapter – 3 Data Handling Chapter – 5 Lines and Angles Chapter – 6 The Triangle and its Properties Chapter – 7 Comparing Quantities Chapter – 9 Perimeter and Area Chapter – 10 Algebraic Expressions Chapter – 13 Visualizing Solid Shapes
Computer	Chapter 2 – GIMP An Introduction Chapter 3 – GIMP Working with layers Chapter 7 – JavaScript An Introduction Chapter 8 – Python Conditional Control Structures and Turtle Programming
Fine Arts	Principle of Art – Emphasis Indian Art - Madhubani Art Symmetry - Reflection Flowers - Rose



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Class VIII

Subject	Syllabus
English	<p>Literature</p> <p>Chapter-6 The Boy Who Broke the Bank Chapter-7 The Visitor Poem -Helen Keller Chapter-8 The Stolen Bacillus Poem- The Elephant and the Tragopan Chapter-10 That Little Square Box Poem -Marshlands Chapter-11 The Three Caskets</p> <p>Grammar</p> <ul style="list-style-type: none">• Phrases and Clauses• Noun Phrases• Prepositions and Prepositional Phrases• Adverbs and Adverbial Phrases• Coordinating and Subordinating Conjunctions• Simple, Compound and Complex Sentences• Noun Clauses• Relative Clauses• Adverbial Clauses• Conditional Clauses• Kinds of Sentences• Subject Verb Agreement• Direct and Indirect Objects• Direct and Indirect Speech <p>Creative Writing</p> <ul style="list-style-type: none">• Book Review• Report Writing- Newspaper Reports• Discursive, Argumentative Essay• Note-making and Summarizing <p>Comprehension Passage</p>
Science	<p>Chapter-5 Conservation of plants and animals Chapter-6 Reproduction in animals Chapter-7 Reaching the age of Adolescence Chapter-10 Sound Chapter-11 Chemical effects of electric current Chapter-12 Some Natural Phenomenon Chapter-13 Light</p>
Social Science	<p>History</p> <p>Chapter -6 Civilizing the Native' Educating the Nation Chapter-8 The Making of National Movement 1870's-1947</p> <p>Geography</p>

	<p>Chapter-3 Agriculture Chapter-4 Industries Chapter-5 Human Resources Civics Chapter-5 Understanding Marginalisation Chapter-7 Public facilities Chapter-8 Law and Social Justice</p>
Sanskrit	<p>पाठ्यपुस्तक-दिव्यम् भाग-3 पाठ-10 लोभः पापस्य कारणम् (शतृ प्रत्ययः) पाठ-11 भारतीयाः नार्यः (स्वरसन्धिः) पाठ-12 गीतायाः माहात्म्यम् (श्लोकाः) पाठ-13 सन्मित्रम् पाठ-14 राजा भोजः (समासप्रकरणम्) पाठ-15 अविस्मरणीया गोवायात्रा (पत्रलेखनम्) पाठ-16 समशीलेषु विभाति मैत्री (स्म प्रकरणम्) धातुरूप - सेव, लभ, मुद् (लट्, लृट् लकार में) शब्दरूप - इदम्, किम् (तीनों लिंगों में) अस्मद्, युष्मद् प्रत्ययाः - क्त्वा, तुमुन्, ल्यप् अपठित गद्यांश, चित्रवर्णन, पत्रलेखनम्</p>
French	<p>L-4 Une journée dans la vie de mes parents L-6 Les loisirs de Nathalie L-7 Range ta chambre ! L-8 Où allez-vous? L-9 "Hier, j'ai....." L-10 Pendant les vacances Comprehension, Writing Skill, Grammar and Culture and Civilization</p>
Hindi	<p>बसंत - सुदामा चरित, जहाँ पहिया है, अकबरी लोटा, सूरदास के पद, पानी की कहानी ,बाज और साँप व्याकरण - काल , वाच्य, पद परिचय, अलंकार भारत की खोज रचनात्मक लेखन - ईमेल लेखन, स्ववृत्त- लेखन ,संवाद , अनुच्छेद ,पत्र लेखन , अपठित गद्यांश एवं पद्यांश ।</p>
Mathematics	<p>Chapter 2 Linear Equations in one Variable Chapter 7 Comparing Quantities Chapter 8 Algebraic expressions and Identities Chapter 9 Mensuration Chapter 11 Direct and Inverse Proportion Chapter 12 Factorisation Chapter 13 Introduction to graphs</p>
Computer	<p>Chapter 1 – Open Shot Video Editor Chapter 2- Inkspace – Vector Designing Chapter 3 – Canva Chapter 4 – MySQL</p>
Fine Arts	<p>World Art - Mola Art Indian Art - Alpana Symmetry - Mandala Landscape - Pencil Sketch</p>



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Class: IX

Subject	Syllabus
English	<p>Beehive</p> <p>Prose</p> <p>Chapter-1 The Fun They Had Chapter-2 The Sound of Music Chapter-3 The Little Girl Chapter-4 A Truly Beautiful Mind Chapter-5 The Snake and the Mirror Chapter-6 My Childhood Chapter-7 Reach for The Top Chapter-8 Kathmandu Chapter-9 If I were You</p> <p>Poems</p> <p>1. The Road Not taken 2. Wind 3. Rain on The Roof 4. The Lake Isle of Innisfree 5. A Legend of the Northland 6. No Men are Foreign 7. On Killing a Tree 8. A Slumber Did My Spirit Seal</p> <p>MOMENTS</p> <p>Chapter-1 The Lost Child Chapter-2 The Adventures of Toto Chapter-3 Iswaran the Storyteller Chapter-4 In the Kingdom of Fools Chapter-5 The Happy Prince Chapter-6 The Last Leaf Chapter-7 A House is not a Home Chapter-8 The Beggar</p> <p>GRAMMAR</p> <p>1. Determiners 2. Tenses 3. Modals 4. Subject Verb Concord 5. Reported Speech</p> <p>Creative Writing</p>

	<p>1. Descriptive Paragraph- (person, event, situation) 2. Diary Writing 3. Story Writing Comprehension Passages</p>
Mathematics	<p>Chapter-1 Number System Chapter-2 Polynomials Chapter-3 Coordinate Geometry Chapter-4 Linear Equations Chapter-5 Introduction to Euclid's Geometry Chapter-6 Lines and Angles Chapter-7 Triangles Chapter-8 Quadrilaterals Chapter-9 Circles Chapter-10 Heron's Formula Chapter-11 Surface area and volume Chapter-12 Statistics</p>
Social Science	<p>History Chapter-1 The French Revolution Chapter-2 Socialism in Europe and the Russian Revolution Chapter-3 Nazism and the Rise of Hitler Political Science Chapter-1 What is Democracy? Why Democracy? Chapter-2 Constitutional Design Chapter-3 Electoral Politics Chapter-4 Working of Institution Chapter-5 Democratic Rights Economics Chapter-1 The Story of Village Palampur Chapter-2 People as a Resource Chapter-3 Poverty as a challenge Chapter-4 Food Security in India Geography Chapter -1 India Size and Location Chapter-2 Physical features of India Chapter-3 Drainage Chapter-4 Climate Chapter-5 Natural Vegetation and Wildlife (only map pointing to be evaluated) Chapter-6 Population</p>
Sanskrit	<p>पुस्तक का नाम-मणिका – भाग-1 पाठ- 1 अविवेकः परम् आपदां पदम् पाठ- 2 पाथेयम्</p>

पाठ- 3 विजयताम् स्वदेशः

पाठ- 4 विद्यया भान्ति सद्गुणाः

पाठ- 5 कर्मणा याति संसिद्धिम्

पाठ- 6 तत् त्वम् असि

पाठ- 7 तरवे नमोस्तु

पाठ- 8 न धर्मवृद्धेषु वयः समीक्ष्यते

पाठ- 9 कवयामि वयामि यामि

पाठ- 10 भारतीयं विज्ञानम् (केवलम् आन्तरिकमूल्याङ्कनाय)

पाठ- 11 भारतेनास्ति मे जीवनं जीवनम् (केवलम् आन्तरिकमूल्याङ्कनाय)

उच्चारणस्थानानि

स्वर संधि - दीर्घ, गुण वृद्धि यण, अयादि

व्यञ्जन सन्धि - वर्गीय प्रथम वर्णस्य तृतीय वर्णे परिवर्तनम्

म् स्थाने अनुस्वारः

विसर्ग सन्धि - उत्त्वम्, सत्वम्, शत्वम्, षत्वम्

शब्द रूप - अकारान्त - बालकवत्

उकारांत - साधुवत्, इकारान्त - कविवत्

आकारांत - लतावत्, ईकारांत - नदीवत्

नपुंसकलिङ्ग शब्दाः - फलवत्

हलन्त - भवत्

सर्वनाम शब्दाः - अस्मद्, युष्मद्, तत्, किम्, (त्रिषु लिङ्गेषु)

धातु रूप - परस्मैपदिनः - भू, नम्, गम्, अस, पृच्छ, कृ, ज्ञा, क्षाल्, नी (पञ्चसु लकारेषु)

आत्मनेपदिनः - सेव, लभ्, रुच् (लट्-लृट् लकारयोः)

कारक-उपपद-विभक्तयः -

द्वितीया - समय, निकषा, प्रति, विना, परितः, उभयतः

तृतीया - सह/समम्/सार्धम्, विना, अलम्, हीन

चतुर्थी - रुच्, दा (यच्छ्), नमः, कुप्, अलम् (सामर्थ्ये)

पंचमी - विना, बहिः, भी, रक्ष्

षष्ठी - उपरि, अधः, पुरतः, पृष्ठतः, वामतः, दक्षिणतः

सप्तमी - स्निह्, विश्वस्, निपुण, कुशल

अव्ययानि -

स्थानबोधकानि - अत्र, तत्र, यत्र, सर्वत्र, अन्यत्र, एकत्र, उभयत्र

कालबोधकानि - यदा, तदा, सर्वदा, एकदा, पुरा, अधुना, अद्य, श्वः, ह्यः

प्रश्नबोधकानि - किम्, कुत्र, कति, कदा, कुतः, कथं, किमर्थम्

अन्यानि - च, अपि, यदि, तर्हि, यथा, तथा, सम्यक्, एव

	<p>प्रत्ययाः – क्त्वा, तुमन्, ल्यप्, शतृ</p> <p>संख्या - 1-100 (1-4 केवलं प्रथमाविभक्तौ)</p> <p>अपठित-अवबोधनम्, पत्रलेखनम्, चित्रवर्णनम्, संवादपूर्ति/कथापूर्ति:</p>
Hindi	<p>क्षितिज</p> <p>दो बैलों की कथा, लहासा की और, उपभोक्तावाद की संस्कृति, सांवल्ले सपनों की याद, प्रेमचंद के फटे जूते, मेरे बचपन के दिन</p> <p>कबीर, वाख, सवैये, कैदी और कोकिला, ग्राम श्री, मेघ आए, बच्चे काम पर जा रहे हैं</p> <p>कृतिका- इस जल प्रलय में, मेरे संग की औरतें, गीढ़ की हड्डी</p> <p>व्याकरण - उपसर्ग - प्रत्यय, समास, अर्थ की दृष्टि से वाक्य भेद, अलंकार।</p> <p>रचनात्मक लेखन - अनुच्छेद लेखन, पत्र लेखन, कथा लेखन, ईमेल लेखन, संवाद लेखन, सूचना लेखन अपठित गद्यांश एवं पद्यांश।</p>
French	<p>L-1 La famille</p> <p>L-2 Au lycée</p> <p>L-3 Une journée de Pauline</p> <p>L-4 Les saisons</p> <p>L-5 Les voyages</p> <p>L-6 Les loisirs et les sports</p> <p>L-7 L'argent de Poche</p> <p>L-8 Faire des achats</p>
Science	<p>Chapter-1 Matter in Our Surroundings</p> <p>Chapter-2 Is Matter Around Us Pure?</p> <p>Chapter-3 Atoms and Molecules</p> <p>Chapter-4 Structure of The Atom</p> <p>Chapter-5 The Fundamental Unit of Life</p> <p>Chapter-6 Tissues</p> <p>Chapter-7 Motion</p> <p>Chapter-8 Force and Laws of Motion</p> <p>Chapter-9 Gravitation</p> <p>Chapter-10 Work and Energy</p> <p>Chapter-11 Sound</p> <p>Chapter-12 Improvement in Food Resources</p>
Artificial Intelligence	<p>Employability Skills</p> <p>Unit-1 Communication Skills</p> <p>Unit-2 Self-Management Skills</p> <p>Unit-3 ICT Skills</p> <p>Unit-4 Entrepreneurship Skills</p> <p>Unit-5 Green Skills</p> <p>Artificial Intelligence</p>

	Unit-1 Excite Unit-2 AI Project Cycle Unit-3 Neural Network Unit-4 Introduction to Python
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Rukmani Birla Modern High School
Syllabus for PA IV
Session 2024-25
Class: XI

Subject	Syllabus
English	<p>Hornbill</p> <p>Chapter-1 The Portrait of a Lady Poem-A Photograph Chapter-2 We are not Afraid to Die Poem: The Laburnum Top Chapter 3: Discovering Tut: The Saga Continues Poem-The Voice of the Rain Poem- Childhood Chapter-7: The Adventure Chapter 8: Silk Road Poem- Father to Son</p> <p>Snapshots</p> <p>Chapter-1 The Summer of a Beautiful White Horse Chapter-2 The Address Chapter-5: Mother's Day Chapter-7-Birth Poem- The Tale of Melon City</p> <p>Grammar</p> <ul style="list-style-type: none">• Tenses• Sentence Reordering• Transformation of Sentences• Clauses <p>Writing</p> <ul style="list-style-type: none">• Poster Making• Classified Advertisements• Speech• Debate <p>COMPRENSION PASSAGES</p> <ul style="list-style-type: none">• Factual/Literary/Descriptive• Case -Based Factual• Note Making
Physics	<p>Chapter-1 Units and Measurement Chapter-2 Motion in a straight line Chapter-3 Motion in a plane Chapter-4 Laws of Motion Chapter-5 Work energy and power</p>

	<p>Chapter-6 System of particles and Rotational motion</p> <p>Chapter-7 Gravitation</p> <p>Chapter-8 Mechanical properties of Solids</p> <p>Chapter-9 Mechanical properties of Fluids</p> <p>Chapter-10 Thermal properties of Solids</p> <p>Chapter-11 Thermodynamics</p> <p>Chapter-12 Kinetic theory</p> <p>Chapter-13 Oscillations</p> <p>Chapter-14 Waves</p>
Chemistry	<p>Unit 1: Some basic Concepts of Chemistry</p> <p>Unit2: Structure of Atom</p> <p>Unit3: Classification of elements and Periodicity in Properties</p> <p>Unit4: Chemical Bonding and Molecular Structure</p> <p>Unit5: Thermodynamics</p> <p>Unit 6: Equilibrium</p> <p>Unit 7: Redox Reactions</p> <p>Unit8: Organic Chemistry:Some basic principles and techniques</p> <p>Unit 9: Hydrocarbons</p>
Mathematics	<p>Chapter 1. Sets</p> <p>Chapter 2. Relations and Functions</p> <p>Chapter 3. Trigonometric Functions</p> <p>Chapter 4. Complex Numbers and Quadratic Equations</p> <p>Chapter 5. Linear Inequalities</p> <p>Chapter 6. Permutations and Combinations</p> <p>Chapter 7. Binomial Theorem</p> <p>Chapter 8. Sequence and Series</p> <p>Chapter 9. Straight Lines</p> <p>Chapter 10. Conic Sections</p> <p>Chapter 11. Introduction to Three-Dimensional Geometry</p> <p>Chapter 12. Limits and Derivatives</p> <p>Chapter 13. Statistics</p> <p>Chapter 14. Probability</p>
Biology	<p>Chapter-1 The Living World</p> <p>Chapter-2 Biological Classification</p> <p>Chapter-3 Plant Kingdom</p> <p>Chapter-4 Animal Kingdom</p> <p>Chapter-5 Morphology of Flowering Plants</p> <p>Chapter-6 Anatomy of Flowering Plants</p> <p>Chapter-7 Structural Organisation in Animals</p> <p>Chapter-8 Cell: The Unit of Life</p> <p>Chapter-9 Biomolecules</p> <p>Chapter-10 Cell Cycle and Cell Division</p> <p>Chapter-11 Photosynthesis in Higher Plants</p>

	<p>Chapter-12 Respiration in Plants Chapter-13 Plant Growth and Development Chapter-14 Breathing and Exchange of Gases Chapter-15 Body Fluids and Circulation Chapter-16 Excretory Products and Their Elimination Chapter-17 Locomotion and Movement Chapter-18 Neural Control and Coordination Chapter-19 Chemical Coordination and Integration</p>
Geography	<p>Book 1: Fundamentals of Physical Geography Chapter-1 Geography as a discipline Chapter-2 The Origin and evolution of the earth Chapter-3 Interior of the earth Chapter-4 Distribution of oceans and continents Chapter-5 Geomorphic processes Chapter-6 Landforms and their evaluation Chapter-7 Composition and structure of the atmosphere Chapter-8 Solar radiation, heat balance, and temp. Chapter-9 Atmosphere circulation and weather system Chapter-10 Water in the atmosphere Chapter-11 World climate and climate change Chapter-12 Water (oceans) Chapter-13 Movements of ocean water Book 2: India: Physical Environment Chapter-1 India: Location Chapter-2 Structure & Physiography Chapter-3 Drainage system Chapter-4 Climate Chapter-5 Natural vegetation</p>
History	<p>Chapter-1 Writing and City Life Chapter-2 An Empire Across Three Continents Chapter-3 Nomadic Empires Chapter-4 The Three Orders Chapter-5 Changing Cultural Traditions Chapter-6 Displacing Indigenous Peoples Chapter-7 Paths to Modernization</p>
Business Studies	<p>Chapter-1 Business, Trade and Commerce Chapter-2 Forms of Business Organization Chapter-3 Private, Public and Global Enterprises Chapter-4 Business Services Chapter-5 Emerging Modes of Business Chapter-6 Social Responsibilities of Business and Business Ethics Chapter-7 Formation of a Company Chapter-8 Sources of Business Finance</p>

	<p>Chapter-9 Small Business Chapter-10 Internal Trade Chapter-11 International Business</p>
Sociology	<p>Book 1 Introducing Sociology Chapter 1 Sociology and Society Chapter 2 Terms, Concept and Their Use in Sociology Chapter 3 Understanding Social Institutions Chapter 4 Culture and Socialisation Book 2 Understanding Society Chapter 2 Social Change and Social Order in Rural and Urban Society Chapter 4 Introducing Western Sociologist Chapter 5 Indian Sociologists</p>
Accountancy	<p>Chapter –1 Meaning and Objectives of Accounting Chapter –2 Basic Accounting Terms Chapter –3 Accounting Principles Chapter –4 Process and Bases of Accounting Chapter –5 Accounting Standards Chapter –6 Accounting Equation Chapter –7 Double Entry System Chapter –8 Origin of Transactions: Source Documents of Accountancy Chapter –9 Books of Original Entry- Journal Chapter –10 Accounting for Goods & Service Tax (GST) Chapter –11 Books of Original Entry- Cash Book Chapter –12 Books of Original Entry- Special Purpose Subsidiary Books Chapter –13 Ledger Chapter –14 Trial Balance and Errors Chapter-15 Bank Reconciliation Statement Chapter-16 Provision and Reserves Chapter-17 Depreciation Chapter-19 Rectification of Errors Chapter-20 Capital and Revenue Chapter-21 Financial Statements- Without Adjustments Chapter- 22 Financial Statements- With Adjustments Chapter-23 Incomplete Records</p>
Political Science	<p>Indian constitution at work Chapter- 1 Constitution: why and how Chapter -2 Rights in the Indian Constitution Chapter- 3 Election and representation Chapter-4 Executive Chapter-5 Legislature Chapter-6 Judiciary Chapter-7 Federalism Chapter-8 Local Government Chapter -9 Constitution as a Living Document</p>

	<p>Chapter -10 The philosophy of the constitution</p> <p>Political Theory</p> <p>Chapter -1 Political theory: An introduction</p> <p>Chapter -2 Freedom</p> <p>Chapter-3 Equality</p> <p>Chapter-4 Social Justice</p> <p>Chapter-5 Rights</p> <p>Chapter-6 Citizenship</p> <p>Chapter-7 Nationalism</p> <p>Chapter-8 Secularism</p>
Economics	<p>Unit1-Introduction to Statistics</p> <p>Unit 2-Collection, Organization, Presentation of Data</p> <p>Unit3-Statistical tools &interpretation-Measures of Central Tendency, Correlation and Index Numbers</p> <p>Unit 4-Introduction to Microeconomics</p> <p>Unit 5-Consumer's Equilibrium and theory of Demand</p> <p>Unit 6- Producers Equilibrium and theory of supply</p> <p>Unit 7- Forms of Market and Price determination under Perfect competition.</p>
Applied Mathematics	<p>Unit-1 Numbers, Quantification and Numerical Applications</p> <p>Unit-2 Algebra</p> <p>Unit-3 Mathematical Reasoning</p> <p>Unit-4 Calculus</p> <p>Unit-5 Probability</p> <p>Unit-6 Descriptive Statistics</p> <p>Unit-7 Financial Mathematics</p> <p>Unit-8 Coordinate Geometry</p>
Psychology	<p>Unit-1 What is Psychology?</p> <p>Unit-2 Methods of Enquiry in Psychology</p> <p>Unit-4 Human Development</p> <p>Unit-5 Sensory, Attentional and Perceptual Processes</p> <p>Unit-6 Learning</p> <p>Unit-7 Human Memory</p> <p>Unit-8 Thinking</p> <p>Unit-9 Motivation and Emotion</p>
Computer Science	<p>Chapter-1 Computer System Overview</p> <p>Chapter-2 Data Presentation</p> <p>Chapter-3 Boolean Logic</p> <p>Chapter-4 Emerging Trends</p> <p>Chapter-5 Introduction to Problem Solving</p> <p>Chapter-6 Getting Starting with Python</p> <p>Chapter-7 Python Fundamental</p>

	<p>Chapter-8 Data Handling Chapter-9 Flow of Control Chapter-10 String Manipulation Chapter-11 List Manipulation Chapter-12 Tuples Chapter-13 Dictionaries Chapter-15 Cyber Safety Chapter-16 Online Access and Computer Security Chapter-17 Society, Law and Ethics</p>
Entrepreneurship	<p>Chapter-1 Entrepreneurship: Concept and Functions Chapter-2 An Entrepreneur Chapter-3 Entrepreneurial Journey Chapter-4 Entrepreneurship as Innovation and Problem Solving Chapter-5 Concept of Market Chapter-6 Business Finance and Arithmetic Chapter-7 Resource Mobilization</p>
Informatics Practices	<p>Chapter-1 Computer System Chapter-2 Getting started with Python Chapter-3 Python Fundamentals Chapter-4 Data Handling Chapter-5 Flow Control Chapter-6 List Manipulation Chapter-7 Dictionaries Chapter-10 Database Concepts Chapter-11 Structured Query Language Chapter-12 Emerging Trends</p>
Physical education	<p>Unit-1 Changing Trends and Career in Physical Education Unit-2 Olympism Value Education Unit-3 Yoga Unit-4 Physical Education and Sports for CWSN Unit-5 Physical Fitness, Wellness and Lifestyle Unit-6 Test, Measurement & Evaluation Unit-7 Fundamentals of Anatomy, Physiology in Sports Unit-8 Fundamentals of Kinesiology and Biomechanics in Sports Unit-9 Psychology and Sports Unit-10 Training & Doping in Sports</p>
Commercial Arts	<p>Unit-1 Chapter-1(a) Six Limbs of Indian Painting and Fundamentals of Visual Art (Elements and Principles) Chapter-1(b) Pre- historic Rock Paintings and the art of Indus Valley Civilization. Unit-2 Chapter-2 Buddhist, Jain and Hindu Art- Art during Mauryan, Shunga and Kushana period</p>

	<p>Chapter- 3 Buddhist, Jain and Hindu Art-Art of Ajanta caves.</p> <p>Unit-3 Temple sculptures, Bronzes and artistic aspect of Indo- Islamic Architecture</p> <p>Chapter-4 Temple sculptures</p> <p>Chapter-5 Bronzes</p> <p>Chapter-6 Artistic aspect of Indo- Islamic Architecture</p>
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