



TS DAV PUBLIC SCHOOL, BAHARAGORA

(Managed by DAV College Managing Committee, New Delhi)

SPLIT-UP SYLLABUS

• 2026-27 •

CLASS - X



ENGLISH

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HINDI

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MATHEMATICS



SCIENCE



SOCIAL SCIENCE

संस्कृतम्

SANSKRIT



ARTIFICIAL
INTELLIGENCE

DISCIPLINE

• DEDICATION

• DETERMINATION

Tarapada Sarangi
DAV Public School, Baharagora
English Language & Literature (184)

Unit Name	Unit details	Marks Alloted
READING COMPREHENSION	Conceptual understanding, decoding, analysing, inferring, interpreting and vocabulary	20
WRITING SKILL & GRAMMAR	Creative expression of an opinion, reasoning, justifying, illustrating, appropriacy of style and tone, using appropriate format and fluency, applying conventions, using integrated structures with accuracy and fluency	20
LANGUAGE & LITERATURE	Recalling, reasoning, appreciating, applying literary conventions, illustrating and justifying etc. Extract relevant information, identifying the central theme and sub-theme, understanding the writer's message and writing fluently.	40

MONTH	LESSON/UNIT	ACTIVITIES/ PROJECTS/ PRACTICAL EXPERIMENTS TO BE HELD/ SPECIFIC ASSESSMENTS TOOL(S) (SUGGESTED)
APRIL/ JUNE 2025	FIRST FLIGHT (MAIN TEXT BOOK)	
	CHAPTER 1: PROSE: A LETTER TO GOD by G. L. Fuentes	FIELD TRIP/ VISIT: Visit a Post office in your locality and collect information on different job opportunities at India Post/ various services offered by India Post. ROLE PLAY: Role play based on the lesson 'A LETTER TO GOD' / A Day in Post Office
	POEM 1: DUST OF SNOW by Robert Frost	
	POEM 2: FIRE AND ICE by Robert Frost	DEBATE/ DISCUSSION/ PORTFOLIO ASSIGNMENT: 1) Apartheid/ Untouchability/ other discrimination and Colonialism. 2) Indian Renaissance Leaders and their contribution 3) Indian Constitution and Judicial System - A shield against discrimination. FIELD TRIP/ VISIT: Visiting a nearby Zoo. DEBATE/ DISCUSSION/ PORTFOLIO
	CHAPTER 2: PROSE: NELSON MANDELA: LONG WALK TO FREEDOM by Nelson Mandela	
	POEM 3: A TIGER IN THE ZOO by Leslie Norris	

APRIL/ JUNE 2026		ASSIGNMENT: Animals in Captivity (For Zoo: Roles of Zoo- conservation, research, education and recreation/ Against Zoo: Minimal freedom for animals- boredom, stress and confinement for animals etc.)
	FOOTPRINTS WITHOUT FEET (SUPPLEMENTARY READER)	
	CHAPTER 1: A TRIUMPH OF SURGERY by James Herriot	MULTIDISCIPLINARY TEACHING STYLE: Balanced Diet and Need for Games, Sports and Workouts (Science Teachers/ Physical Education teachers).
	READING COMPREHENSION, WRITING & GRAMMAR	
	GRAMMAR: Tenses (Bridge Course) WRITING: Informal & Formal Letter Writing READING COMPREHENSION: Discursive & Case Based Passages with Visual Input	1. Subject- Verb Concord 2. Modals 3. Determiners
JULY 2026	FIRST FLIGHT (MAIN TEXT BOOK)	
	CHAPTER 3: PROSE: TWO STORIES ABOUT FLYING: 1) HIS FIRST FLIGHT by Liam O' Flaherty 2) BLACK AEROPLANE byFrederick Forsyth	PORTFOLIO ASSIGNMENT: Collect stories about how famous personalities were motivated by their parents/ teachers/ role models. PORTFOLIO ASSIGNMENT: Write about a precious thing you lost and how did you overcome that situation.
	POEM 4: HOW TO TELL WILD ANIMALS by Carolyn Wells	PORTFOLIO ASSIGNMENT/ COLLAGE: The Holocaust
	POEM 5: THE BALL POEM by John Berryman	PORTFOLIO ASSIGNMENT: Taking Help from Biology Teacher try to understand the psychological transition Amanda is going through and the type of parenting styles her mother should choose. Prepare a write up.
	CHAPTER 4: PROSE: FROM THE DIARY OF ANNE FRANK by Anne Frank	
	POEM 6: AMANDA! by Robin Klein	
	JULY 2026	FOOTPRINTS WITHOUT FEET (SUPPLEMENTARY READER)
CHAPTER 2: THE THIEF'S STORY by Ruskin Bond		ROLEPLAY: Roleplay based on the lesson 'THE THIEF'S STORY' / 'THE MIDNIGHT VISITOR'.
CHAPTER 3: THE MIDNIGHT VISITOR by Robert Arthur		JUST A MINUTE (JAM) ACTIVITY: Ausable shows great presence of mind or ability to think quickly and act wisely in a situation of danger. Give examples of such an event
CHAPTER 4: A QUESTION OF TRUST by Victor Canning		

	CHAPTER 5: FOOTPRINTS WITHOUT FEET by H. G. Wells	from your own experience. STORY TELLING PEDAGOGY: Present the story 'A QUESTION OF TRUST' / 'FOOTPRINTS WITHOUT FEET' before the class
	READING COMPREHENSION, WRITING & GRAMMAR	
	GRAMMAR: Tenses, Reported Speech WRITING: Analytical Paragraph Writing READING COMPREHENSION: Discursive & Case Based with Visual Input	
AUGUST 2026	FIRST FLIGHT (MAIN TEXT BOOK)	
	CHAPTER 7: GLIMPSES OF INDIA 1) A BAKER FROM GOA by Lucio Rodrigues 2) COORG by Lokesh Abrol 3) TEA FROM ASSAM by Arup Kumar Dutta	PORTFOLIO ASSIGNMENT: Collect information/ Pictures and write about any three unique and important monuments/ tourist places/ festivals of India and one local monument/ tourist place / festival. FIELD TRIP/ VISIT: Prepare an Itinerary of your visit to a heritage site of India you visited as a part of Field Trip/ Family Tour.
	POEM 7: THE TREES by Adrienne Rich	POSTER MAKING: Make a poster, creating awareness on the importance of Trees/Environment in association with Special Day Celebration like Earth Day, Sadbhavana Divas, and International Wetlands Day. ART INTEGRATION: Draw/ paint a beautiful natural scenery.
	CHAPTER 8: MIJBIL THE OTTER by Gavin Maxwell	
	POEM 8: FOG by Carl Sandburg	
	FOOTPRINTS WITHOUT FEET (SUPPLEMENTARY READER)	
	CHAPTER 6: THE MAKING OF A SCIENTIST by Robert W. Peterson	
	CHAPTER 7: THE NECKLACE by Guy de Maupassant	
	READING COMPREHENSION, WRITING & GRAMMAR	
	GRAMMAR: Finites & Non-Finites, Reported Speech, Error Correction WRITING: Article Writing READING COMPREHENSION: Discursive & Case Based with Visual Input	
SEPTEMBER	MID TERM EXAMINATION	

2026		
	FIRST FLIGHT (MAIN TEXT BOOK)	
OCTOBER 2026	CHAPTER 9: MADAM RIDE THE BUS by Vallikkannan	A BUS/TRAIN RIDE: Write the experience/feelings about BUS/TRAIN RIDE you experienced recently. ART INTEGRATION: Make a comic book on the ballad 'THE TALE OF CUSTARD THE DRAGON'. STORY TELLING PEDAGOGY: Present the story 'THE SERMON AT BANARES' before the class. JAM (JUST A MINUTE) SPEECH: Speech on the topic 'Beauty is only skin deep' or 'Don't Judge a book by its cover' ROLEPLAY: Role- play based on the lesson 'THE PROPOSAL'.
	POEM 9: THE TALE OF CUSTARD THE DRAGON by Ogden Nash	
	CHAPTER 10: THE SERMON AT BANARES	
	POEM 10: FOR ANNE GREGORY by William Butler Yeats	
	CHAPTER 11: THE PROPOSAL by Anton Chekov	
	READING COMPREHENSION, WRITING & GRAMMAR	
	GRAMMAR: Quantifiers, Reported Speech, Error Correction, Clauses. WRITING: Article Writing READING COMPREHENSION: Discursive & Case Based with Visual Input	
NOVEMBER 2026	FOOTPRINTS WITHOUT FEET (SUPPLEMENTARY READER)	
	CHAPTER 9: BHOLI by K.A. Abbas	POWER POINT PRESENTATION: Problems face by women in India and measures for Women Empowerment.
	CHAPTER 10: THE BOOK THAT SAVED THE EARTH by Claire Boiko	JAM (JUST A MINUTE) SPEECH: You noticed your younger brother mimicking his friend (who is disabled) and makes fun of him. Is it justifiable on his part to do such act? If not why? ROLEPLAY: Role play based on the lesson 'THE BOOK THAT SAVED THE EARTH'. ART INTEGRATION: Make a comic book on the play THE BOOK THAT SAVED THE EARTH'. ART INTEGRATION: Drawing/ Painting / Clay modelling - of the alien/ alien invasion based on the chapter 'THE BOOK THAT SAVED THE EARTH'.
	READING COMPREHENSION, WRITING & GRAMMAR	

	GRAMMAR: Active Voice & Passive Voice, Conditional Clauses, Edition/ Error Correction WRITING: Article Writing & Speech Writing READING COMPREHENSION: Discursive & Case Based with Visual Input	
DECEMBER 2026	PRE – BOARD EXAMINATION	
JANUARY / FEBRUARY 2027	INTERNAL ASSESSMENT, REVISION OF LESSONS, REMEDIAL TEACHING, STRATEGIES FOR IMPROVEMENT OF CLASS AVERAGE.	
FEBRUARY / MARCH 2027	CBSE SSE 2027	

कक्षा -दसवीं (X)

मासिक अध्ययन योजना

माह	क्षितिज	कृतिका	व्याकरण	रचनात्मक लेखन
अप्रैल	काव्य खंड - पद (सूरदास) गद्य खंड - नेताजी का चश्मा (स्वयं प्रकाश)		रचना के आधार पर वाक्य भेद	
मई		माता का आंचल (शिवपूजन सहाय)		
जून	काव्य खंड राम लक्ष्मण परशुराम संवाद (तुलसीदास)			अनुच्छेद लेखन
जुलाई	काव्य खंड - आत्मकथ्य (जयशंकर प्रसाद) गद्य खंड - बालगोविन भगत (रामवृक्ष बेनीपुरी)		वाच्य	पत्र लेखन - औपचारिक - अनौपचारिक
अगस्त	काव्य खंड - उत्साह (सूर्यकांत त्रिपाठी निराला) - अट नहीं रही है (सूर्यकांत त्रिपाठी निराला) - लखनवी अंदाज (यशपाल)	सना साना हाथ जोड़ी (मधु कांकरिया)		स्ववृत्त लेखन
सितम्बर	पुनरावृत्ति	पुनरावृत्ति	पुनरावृत्ति	पुनरावृत्ति
अक्टूबर	काव्य खंड - यह दंतुरित मुस्कान (नागार्जुन) - फसल		पद परिचय	ई-मेल लेखन

नवम्बर	गद्य खंड • एक कहानी यह भी (मन्नु भंडारी)		• अलंकार	
दिसम्बर	काव्य खंड संगतकार (मंगलेश डबराल) • नौवतखाने में इबादत (यतींद्र मिश्र)	मैं क्यों लिखता हूं (अज्ञेय)		• विज्ञापन लेखन
जनवरी	संस्कृति (भदंत आनंद कौसल्यायन)			• संदेश लेखन
फरवरी	पुनरावृत्ति	पुनरावृत्ति	पुनरावृत्ति	पुनरावृत्ति
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TARAPADA SARANGI
DAV PUBLIC SCHOOL, BAHARAGORA
SPLIT UP SYLLABUS (2026-27)

Sanskrit: 119

S.No.	Month	No. of working days	Name of the chapter/topic to be covered	Teaching Aids / E-Content Link / Innovative Practices to be Adopted	Assessment / Test / Examination to be Conducted
1	April & May	24	<u>प्रथमः पाठः -</u> वाङ्मयं तपः <u>स्वरसन्धिः -</u> वृद्धिः, यण, अयादिः, पूर्वरूपम् <u>पत्रलेखनम् (रिक्तस्थानपूर्तिः)</u> <u>कृत्प्रत्ययौ -</u> तव्यत्, अनीयर्	सहायकपुस्तकानि - यथा-लघुसिद्धान्तकौमुदी, मणिका अभ्यासपुस्तिका द्वितीयः भागः प्रस्तावित गतिविधियाँ: प्रश्ननिर्माणम् सहायकपुस्तकानि - यथा - अभ्यासपुस्तिका प्रस्तावित गतिविधियाँ: वाक्यनिर्माणक्रीडा-	लघुपरीक्षा मासिक परीक्षा
2	June	07	<u>द्वितीयः पाठः -</u> नास्ति त्यागसमं सुखम् <u>समयलेखनम् -</u> अङ्कानां स्थाने शब्देषु समयलेखनम् (सामान्य-सपाद-सार्थ- पादोन) <u>चित्रवर्णनम्</u>	सहायकपुस्तकानि - यथा-लघुसिद्धान्तकौमुदी, मणिका अभ्यासपुस्तिका द्वितीयः भागः प्रस्तावित गतिविधियाँ: समुचितचित्राणां सङ्कलनम् एवं तेषां चित्राणां भाषायां वर्णनम्	लिखितपरीक्षा आशुभाषणम्

3	July	26	<u>तृतीयः पाठः -</u> रमणीया हि सृष्टिरेषा <u>व्यञ्जनसन्धिः -</u> वर्गीयप्रथमवर्णस्य तृतीयवर्णं परिवर्तनम्, प्रथमवर्णस्य पञ्चमवर्णं परिवर्तनम्, तुगागमः । <u>विसर्गसन्धिः -</u> विसर्गस्य उत्त्वम्, रत्वम्, विसर्गलोपः, विसर्गस्य स्थाने स्, श, ष् <u>तद्धित-प्रत्ययः -</u> मतुप्, ठक्, त्व, तल् ।	सहायकपुस्तकानि - यथा-लघुसिद्धान्तकौमुदी, मणिका अभ्यासपुस्तिका द्वितीयः भागः प्रस्तावित गतिविधियाँ: विविधप्राणिनां चित्राणि प्रदर्श्य तेषाम् उपयोगिता कथनम्	आवधिक परीक्षा - 1
4	August	23	<u>चतुर्थः पाठः -</u> आज्ञा गुरुणां हि अविचारणीया <u>पञ्चमः पाठः</u> अभ्यासवशगं मनः <u>अव्ययीभावसमासः-</u> (अनु, उप, सह, निर्, प्रति, यथा) <u>द्वन्द्वसमासः</u> <u>स्त्री-प्रत्ययः -</u> टाप्, डीप् <u>वाच्यपरिवर्तनम् -</u> केवलं लट्लकारे (कर्तृ, कर्म, क्रिया)	सहायकपुस्तकानि - यथा-लघुसिद्धान्तकौमुदी, मणिका अभ्यासपुस्तिका द्वितीयः भागः प्रस्तावित गतिविधियाँ: वाच्यपरिवर्तन भित्तिपत्रिका-निर्माणम्	वाचिकपरीक्षा/लिखितपरीक्षा
5	September	24	<u>षष्ठः पाठः -</u> राष्ट्र संरक्ष्यमेव हि <u>सप्तमः पाठः -</u> साधुवृत्तिं समाचरेत् तत्पुरुषसमासः (विभक्तिः, नञ्, उपपदः)	सहायकपुस्तकानि - यथा-लघुसिद्धान्तकौमुदी, मणिका अभ्यासपुस्तिका द्वितीयः भागः	आवधिक परीक्षा - 2

			अव्ययपदानि - (उच्चैः, च, श्वः, ह्य, अद्य, अत्र, तत्र, यत्र, कुत्र)	प्रस्तावित गतिविधियाँ: समासे भित्ति-पत्रिका निर्माणम्	
6	October	16	अष्टमः पाठः- तिरुक्कुरल्- सूक्तिसौरभम् नवमः पाठः - सुस्वागतं भो! अरुणाचलेऽस्मिन् तत्पुरुषसमासः (विभक्तिः, नञ्, उपपद) अशुद्धिसंशोधनम् (वचन-लिङ्ग- पुरुष-लकार - दृष्ट्या संशोधनम्)	सहायकपुस्तकानि - यथा-लघुसिद्धान्तकौमुदी, मणिका अभ्यासपुस्तिका द्वितीयः भागः प्रस्तावित गतिविधियाँ: सूक्तिलेखनम्	मौखिकपरीक्षा
7	November	23	दशमः पाठः - कालोऽहम् (केवलम् आन्तरिकमुल्यङ्कनाय) एकादशः पाठः - किं किमुपादेयम् (केवलम् आन्तरिकमुल्यङ्कनाय) अव्ययपदानि- (इव, उच्चैः, एव, नूनम्, इतस्ततः, विना, तु, सहसा, वृथा, शनैः, इति, मा, यत्, अथ सम्प्रति, इदानीम्, अधुना, यावत्-तावत्, बहिः, कदापि, तु, च, अपि, पुरा, अत्र-तत्र, यथा- तथा, कदा, अद्य, श्वः, परश्वः, ह्यः, परह्यः, किमर्थम्, कुत्र, यदि तर्हि, अतः)।	सहायकपुस्तकानि - यथा-लघुसिद्धान्तकौमुदी, मणिका अभ्यासपुस्तिका द्वितीयः भागः प्रस्तावित गतिविधियाँ: पाठ्यपुस्तकात् अव्ययानां चयनम्	निवेशसूचिका-निर्माणम् पूर्व परिषदीय परीक्षा - 1

8	December	18	पुनरावृत्ति: प्रश्नपत्रस्य अभ्यासकार्यम्	प्रस्तावित गतिविधियाँ: निवेशसूचिकायाः सम्पूर्णम्	पूर्व परिषदीय परीक्षा - 2
9	January	22	पुनरावृत्ति: प्रश्नपत्रस्य अभ्यासकार्यम्	प्रस्तावित गतिविधियाँ: निवेशसूचिकायाः सम्पूर्णम्	आवधिक परीक्षा - 3
10	February	23	पुनरावृत्ति: प्रश्नपत्रस्य अभ्यासकार्यम्	प्रस्तावित गतिविधियाँ: निवेशसूचिकायाः सम्पूर्णम्	
11	March	-	सत्रान्त परीक्षा		

Syllabus Class X Session [2026-27]

Subject: Mathematics

Month	Chapter	Topics Covered	No. of Periods
APRIL	Real Numbers	Real Numbers – Euclid’s Division Algorithm, Fundamental Theorem of Arithmetic	12 Periods
		Real Numbers – HCF/LCM Applications	
	Polynomials	Polynomials – Zeros of Polynomial	10 Periods
		Polynomials – Relationship between Zeroes & Coefficients + Practice	
MAY Before Vacation	Pair of Linear Equations	Pair of Linear Equations – Graphical & Algebraic Methods	9 Periods
		Pair of Linear Equations – Substitution & Elimination + Word Problems	
JUNE After Vacation	Quadratic Equations	Quadratic Equations – Factorisation Method	10 Periods
		Quadratic Equations – Quadratic Formula + Word Problems	
JULY	Arithmetic Progressions	Arithmetic Progressions – nth Term	13 Periods
		Arithmetic Progressions – Sum of n Terms	
	Triangles	Triangles – Similarity Criteria	12 Periods
		Triangles – Theorems & Applications	
AUGUST	Coordinate Geometry	Coordinate Geometry – Distance Formula	7 Periods
	Trigonometry	Coordinate Geometry – Section Formula	
	Application Of Trigonometry	Trigonometry – Ratios & Identities	9 Periods
		Trigonometry – Heights & Distances	6 Periods

SEPTEMBER	Circles	Circles – Tangents & Theorems	7 Periods
		Revision + Half-Yearly Exam	
OCTOBER	Areas Related to Circles Surface Areas & Volumes Statistics	Areas Related to Circles	5 Periods
		Surface Areas & Volumes – Solids	7 Periods
		Surface Areas & Volumes – Problems	
		Statistics – Mean, Median, Mode	2 Periods
NOVEMBER	Statistics Probability	Statistics – Graphs & Practice	5 Periods
		Probability	5 Periods
		Full Syllabus Revision (Algebra + Geometry)	
		Full Revision (Mensuration + Stats + Probability)	
DECEMBER	Revision	Full Maths Revision	
		Case-based Questions + HOTS + PYQs	
JANUARY	Revision	Algebra Full Revision	
		Geometry & Trigonometry Revision	
		Mensuration + Statistics + Probability	
		Sample Papers + Pre-Board	

Syllabus Class X Session [2026-27]

Subject: Science

Month	Chapter	Topics Covered	No. of Periods	Activities
APRIL	<u>Physics:</u> Light- Reflection And Refraction	- Light – Reflection: Laws of reflection, Plane mirror. - Spherical mirrors, Image formation, Ray diagrams - Mirror formula, Magnification (numericals) - Refraction: Introduction, Laws of refraction	09	Verify the laws of reflection using a plane mirror and ray box; determine the focal length of a concave mirror/convex lens by experiment.
	<u>Biology:</u> Life Processes	- Basic concept of Nutrition. - Nutrition in Amoeba and Human being. - Respiration (Aerobic and Anaerobic respiration) - Transportation in Animals and Plants. - Excretion in plants and animals.	10	Demonstrate osmosis using raisins/potato strips; prepare a flowchart of digestion, respiration, transportation and excretion in humans.
	<u>Chemistry:</u> Chapter-1: Chemical Reactions and Equation Chapter-2: Acids, Bases and Salts	Chemical reactions, Chemical equation, Balanced chemical equation, types of chemical reactions: combination, decomposition, displacement, double displacement, precipitation, endothermic, exothermic reactions, oxidation and reduction Acids and Bases – definitions in terms of furnishing of H^+ and OH^- ions, identification using indicators	09 02	Perform reactions showing combination, displacement and double displacement; identify indicators of a chemical reaction (gas, precipitate, colour change, temperature). Test household substances with litmus, turmeric and pH paper; prepare a pH scale chart.
MAY Before	<u>Physics:</u> Light-	Refraction through glass slab, Refractive index	06	Trace the path of light through a glass slab and verify Snell's law using a

Vacation	Reflection And Refraction	Refraction through lenses, Ray diagrams		ray box.
	<u>Biology:</u> Control and Coordination	- Human nervous - Structure of Brain - Parts of Brain - Reflex arc and Reflex action	06	Demonstrate reflex action using the ruler-drop activity; prepare a labelled model/chart of the human brain and neuron.
	<u>Chemistry:</u> Continuation of Ch-2: Acids, Bases and Salts	chemical properties of acids and bases, neutralization, concept of pH scale, importance of pH in everyday life	06	Neutralisation activity using vinegar and baking soda; observe pH changes using universal indicator.
JUNE After Vacation	<u>Physics:</u> Light- Reflection And Refraction & Human Eye And The Colourful World	- Lens formula, Magnification, Power of lens - Human Eye – Structure & Function	06	Determine the power of a convex lens; prepare a working model of the human eye.
	<u>Biology:</u> Control and Coordination (Cont.)	- Coordination in Plants. - Tropic movements in plants. - Plant hormones - Endocrine glands and it's hormones.	06	Demonstrate phototropism using a potted plant; identify endocrine glands using a human body chart.
	<u>Chemistry:</u> Continuation of Ch-2: Acids, Bases and Salts	preparation and uses of Sodium Hydroxide, Bleaching Powder, Baking soda, Washing soda and Plaster of Paris.	07	Identify samples of baking soda, washing soda and POP; prepare a chart showing their preparation and uses.

JULY	<u>Physics:</u> Human Eye And The Colourful World	- Defects of vision & correction - Dispersion of light, Spectrum - Atmospheric refraction, Scattering	09	Demonstrate dispersion using a prism; observe atmospheric scattering through simple classroom demonstrations/videos.
	<u>Biology:</u> How do organisms reproduce?	- Introduction – Reproduction - Asexual reproduction (Binary & Multiple fission, fragmentation, Budding, Regeneration, Spore formation) - Vegetative Propagation	12	Dissect a hibiscus flower to identify reproductive organs; prepare charts showing asexual reproduction methods.
	<u>Chemistry:</u> Chapter-3: Metals and Non-metals	Properties of metals and non-metals; Reactivity series; Formation and properties of ionic compounds Class test and Questions for practice	07 05	Compare physical properties of metals and non-metals; demonstrate displacement reaction using iron nail and copper sulphate solution.
AUGUST	<u>Physics:</u> Electricity	- Electricity – Electric current, Circuit - Potential difference, Ohm's Law - Resistance, Resistivity - Series & Parallel combination	09	Verify Ohm's Law; construct simple series and parallel circuits and compare bulb brightness.
	<u>Biology:</u> How do organisms reproduce? (Cont.)	- Sexual Reproduction - Reproduction in flowering plants - Reproduction in Human beings - Male and Female reproductive system - Reproductive health and Contraceptive devices.	12	Prepare labelled diagrams/models of male and female reproductive systems; discussion on reproductive health and hygiene.
	<u>Chemistry:</u>	Revision		Conduct concept-mapping, quizzes and competency-based worksheet activities.
SEPTEMBER	<u>Physics:</u> Electricity	Electric power, Heating effect Revision + Half-Yearly Exam	03	Calculate power consumed by common household appliances; identify safety devices

				in domestic circuits.
	<u>Biology:</u>	Revision + Half-Yearly Exam	05	Chapter-wise quiz, practical revision and worksheet discussion before Half-Yearly Examination.
	<u>Chemistry:</u>	Revision + Half-Yearly Exam		Chapter-wise quiz, practical revision and worksheet discussion before Half-Yearly Examination.
OCTOBER	<u>Physics:</u> Magnetic Effect Of Electric Current	• Magnetic field, Field lines • Field due to current • Force on conductor, Fleming's Rule • Electromagnetic induction	09	Make a simple electromagnet; observe magnetic field lines using iron filings and a bar magnet.
	<u>Biology:</u> Heredity	• Introduction – Heredity • Imp terms(traits, genes, chromosomes, allele, phenotype, genotype) • Laws of Inheritance (Mendel's contribution) • Sex determination	09	Study inherited traits through a family pedigree; prepare a Punnett square activity.
	<u>Chemistry:</u> Continuation of Ch-3: Metals and Non-metals	Basic metallurgical processes; Corrosion and its prevention Class test and Practice session	06 04	Demonstrate corrosion using rusting of iron nails; prepare a chart on methods of preventing corrosion.
NOVEMBER	<u>Physics:</u> Magnetic Effect Of Electric Current	Domestic electric circuits Full Physics Revision	09	Identify electrical components at home; prepare a labelled household wiring diagram highlighting safety features.
	<u>Biology:</u> Our Environment	• Eco-system • Food chain & food web • Ozone depletion • Biodegradable and non-biodegradable substances. • Methods of waste disposal Revision for Preboard	10	Prepare a food chain and food web using local organisms; conduct a school waste segregation survey.

	<u>Chemistry:</u> Chapter-4: Carbon and its compounds	Covalent bonds – formation and properties of covalent compounds, Versatile nature of carbon, Hydrocarbons – saturated and unsaturated, Homologous series. Nomenclature of alkanes, alkenes, alkyne Practice session (Based on the topics taught from Ch-4)	07 03	Build models of methane, ethane and ethanol; compare the cleansing action of soap and detergent.
DECEMBER	<u>Physics:</u> Revision	• Case-based + Numericals • Light Revision		Solve case-based questions, numerical worksheets and perform practical demonstrations.
	<u>Biology:</u>	Revision+ Module test + Pre boards	06	Prepare concept maps, labelled diagrams and peer-teaching sessions.
	<u>Chemistry:</u> Continuation of Ch- 4: Carbon and its compounds	Nomenclature of carbon compounds containing functional groups (halogens, alcohol, ketones, aldehydes). Chemical properties of carbon compounds (combustion, oxidation, addition and substitution reaction). Ethanol and Ethanoic acid (only properties and uses), soaps and detergents. Practice session	07 03	Identify functional groups using molecular models; compare physical properties of ethanol and ethanoic acid; prepare soap from oil
JANUARY	<u>Physics:</u> Revision	• Electricity Revision • Magnetism Revision • Sample Papers + Pre-Board • Mock Tests		Sample paper discussion
	<u>Biology:</u>	Sample Papers +Revision	08	Sample paper discussion
	<u>Chemistry:</u>	Sample Papers +Revision		Sample paper discussion

TS DAV PUBLIC SCHOOL BAHARAGORA

SPLIT-UP SYLLABUS → STD X

SOCIAL SCIENCE

MONTHS	TOPICS	PERIODS
April	His –ch-1 The rise of Nationalism in Europe Geo- Ch 1 Resources and Development Pol-Sc- ch-1 Power sharing Eco ch-1 Development	His ch- 1 (8) Geo ch-1 (8) Pol –Sc ch-1 (8) Eco ch1-(8)
May	His ch-1 The rise of Nationalism in Europe Geo ch- 2 Forest and wildlife Resources Eco ch-2 Sectors of the Indian Economy	His ch 1- (4) Geo ch 2(4) Eco ch 2(8)
June	His ch-1 The Rise of Nationalism in Europe Geo ch-2 Forest and wildlife Resources Eco ch 2- Sectors of the Indian Economy Pol Sc Ch 2 Federalism	His ch 1(4) Geo ch 2(4) Eco ch 2 (4) Pol Sc ch 2 (4)
July	His ch 2 Nationalism in India Geo ch 3 Water Resources Pol Sc- ch 2 Federalism Pol Sc -Ch 3 Gender, Religion And Caste	His ch 2 (8) Geo ch 2 (8) Pol Sc ch 2(8) ch -3 (8)
August	His ch 2 Nationalism in India Geo ch 3 Water Resources Pol Sc ch 3 Gender, Religion And Caste Eco ch 3 Money And credit	His ch2(8) Geo ch 3(8) Pol Sc ch 3 (8) Eco ch 3 (8)
September	Revision	
October	His ch 3 The Making of a Global World Geo ch 4 Agriculture Pol Sc ch 4 Political Parties Eco ch 3 Money And Credit	His ch 3(8) Geo ch 3(8) Pol Sc ch (8) Eco (8)
November	His ch 5 Print culture and the Modern world Geo ch 5 Minerals and Energy Resources Pol Sc ch 5 Outcomes of Democracy Eco ch 4 Globalization and The Indian Economy	His ch 5(8) Geo ch 5 (8) Pol Sc 5 (8) Eco ch 4 (8)

December	His ch 5 Print Culture and The Modern World Geo ch 6 Manufacturing Industries Pol Sc 5 Outcomes of Democracy Eco ch 4 Globalization and The Indian Economy	His ch 5 (8) Geo ch 6 (8) Pol Sc ch 5 (8) Eco ch 4 (8)
January	Revision	
February	Revision	

TS DAV PUBLIC SCHOOL, BAHARAGORA
SPLIT- UP SYLLABUS FOR AY 2026-27
SUBJECT – ARTIFICIAL INTELLIGENCE (CODE- 417)
CLASS-X

Month	Periods for Teaching	Practical	Chapter	Detailed SplitUp Syllabus	Learning Outcomes	Practicals
April	08	02	Part A– Employability Skills Part B – Subject Specific Skills	Part A - Employability Skills: Unit 1: Communication Skills: Methods of communication, Verbal communication, Non-verbal communication, Communication Cycle and Importance of feedback, Barriers of effective communication, Writing Skills – Part of Speech, Writing Skills – Sentences Part B – Subject Specific Skills Unit 1: Introduction to AI- Foundational Concepts of AI What is intelligence? Decision Making, What is Artificial Intelligence and what is not? Basics of AI: Let's Get started Introduction to AI and related terminologies, Introducing AI, ML, & DL, Introduction to AI Domains (Data, CV & NLP), Gamified tools for each domain , Applications of AI, AI ethics	- Understanding of human communication theories related to culture, self-concept, perception, listening, verbal and nonverbal communication. - Learners will be able to prepare and deliver speeches effectively and participate in small group interactions. - Flip learning on Communication skill. - Understand the concept of human intelligence and its various components such as reasoning, problem-solving, and creativity. - Understand the concept of Artificial Intelligence (AI) and its domains - Learners to relate to application of Artificial Intelligence in their daily lives. - Learn about the ethical concerns involved in AI development, such as AI bias, data privacy and how they can be addressed.	Activities suggested in CBSE study material Activity: Gamified tools for each domain Data Sciences- Impact Filter (Impact of rise in temperature on different species) https://artsexperiments.withgoogle.com/impactfilter/ CV- Autodraw (It pairs machine learning with drawings from talented artists to help you draw stuff fast.) https://www.autodraw.com/ NLP- Wordtune (AI writing tool that rewrites, rephrases, and rewords your writing) https://www.wordtune.com/

						m/ Moral Machine Activity : a platform for gathering a human perspective on moral decisions made by machine intelligence, such as self-driving cars. http://moralmachine.mit.edu/
May & June	04	-	Part A– Employability Skills	Part A - Employability Skills: <u>Unit 2: Self Management Skills</u> • Stress Management • Self-awareness-Strength and Weakness Analysis • Self-motivation • Self-regulation—Goal Setting and Time Management <u>Unit 3: ICT Skills</u> • Basic Computer Operations • Performing Basic File Operations • Computer Care and Maintenance • Computer Security and Privacy	• Students will learn about personal stressors and understand how they affecton their physical, mental, emotional, and spiritual well-being. Practicing mindfulness and self-reflection can enhance self-awareness in managing stress effectively. • Students will learn how to Set SMART goals based on self-analysis helps in achieving personal and professional success	

July	06	02	Part B – Subject Specific Skills Part B – Subject Specific Skills Unit 2 : AI Project Cycle Introduction: Introduction to AI Project Cycle • Problem Scoping • Understanding problem scoping and Sustainable Development Goal • Data Acquisition • Data Exploration • Visualizing Data • Modelling • Introduction to Rule Based & Learning Based AI Approaches • Evaluation Part–C Practical Work Unit 3 – Advance Python (To be assessed through practicals) Recap – • Jupyter Notebook • Introduction to Python • Python Basics	• Identify the AI Project Cycle framework. • Learn problem scoping and ways to set goals for an AI project. • Identify data requirements and find reliable sources to obtain relevant data • Know various data exploration techniques and its importance • Know about the different machine learning algorithms used to train AI models • Understand, create and implement the concept of Decision Trees. • Know the importance of evaluation and various metrics available for evaluation • Understand to work with Jupyter Notebook, installing Python Packages. • Able to write basic Python programs using fundamental concepts such as variables, data types, operators, and control structures.	Activity : Teachable machine to demonstrate Supervised Learning https://teachablemachine.withgoogle.com/ Activity : Infinite Drum Machine to demonstrate Unsupervised learning https://experiments.withgoogle.com/ai/drum-machine/view/ Introduction to Supervised, Unsupervised & Reinforcement Learning Models(Optional)** Neural Networks Jupyter Notebook, Introduction to Python, Python Basics
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Aug	06	03	Part-B Subject Specific Skills Part-C Practical Work	Part B – Subject Specific Skills Unit 4: Data Sciences (Theory) Introduction to Data Science, Applications of Data Science, Revisiting AI Project Cycle, Data Collection, Data Access Python Packages(Practical) Python data Sciences (Numpy, Pandas, Matplotlib), Statistics Learning & Data Visualization (Statistics and Standard Deviation) K-nearest neighbour model (Optional)** Personality Prediction, Understanding K-nearest neighbour model	- Define the concept of Data Science and understand its applications in various fields. - Understand the basic concepts of data acquisition, visualization, and exploration. - Use Python libraries such as NumPy, Pandas, and Matplotlib for data analysis and visualization.	Revisiting AI Project Cycle, Data Collection, Data Access Activities: Game: Rock, Paper & Scissors https://next.rockpapersciissors.ai/ Python for Data Sciences - Numpy - Pandas - Matplotlib
Sep	06	02	Part-B Subject Specific Skills Part-C Practical Work Part A– Employability Skills	Part B – Subject Specific Skills Unit 5 – Computer Vision (Theory) Introduction to Computer Vision, Applications of CV, Understanding CV Concepts (Computer Vision Tasks, Basics of Images-Pixel, Resolution, Pixel value, Grayscale and RGB images) Open CV (Practical) Introduction to Open CV, Image Processing Part A - Employability Skills: Unit 4: Entrepreneurial Skills Entrepreneurship and Society, Qualities	- Define the concept of Computer Vision and understand its applications in various fields. - Understand the basic concepts of image representation, feature extraction, object detection, and segmentation. - Use Python libraries such as OpenCV for basic image processing and computer vision tasks. - Flip learning by students on the Entrepreneurial skills	Activities: Game- Emoji Scavenger Hunt https://emojiscavengerhunt.withgoogle.com/ RGBCalculator: https://www.w3schools.com/colors/colors_rgb.asp Create your own pixel art: https://www.piskelapp.com/ Create your own convolutions: https://setosa.io/ev/image-kernels/

				and Functions of an Entrepreneur Myths about Entrepreneurship, Entrepreneurship as a Career Option Convolution Operator (Optional)** Convolution Neural Network (Optional)**		
Oct	02	-	Part A– Employability Skills Part–B Subject Specific Skills	Part A - Employability Skills: <u>Unit 5: Green Skills</u> • Sustainable Development • Our Role in Sustainable Development Part B – Subject Specific Skills <u>Unit 6: Natural Language Processing</u> Introduction to Natural Language Processing, NLP Applications, Chatbots	• Flip learning by students on the Entrepreneurial skills • Understand the concept of Natural Language Processing (NLP) and its importance in the field of Artificial Intelligence (AI)	

Nov	06	01	Part–B Subject Specific Skills	Human Language VS Computer Language, Text Processing, Data Processing, Bag of Words TFIDF(Optional)**, NLTK(Optional)** Part B – Subject Specific Skills Unit 7: Evaluation • Introduction to model evaluation • Confusion Matrix • Understanding Accuracy Precision, Recall & F1 Score • Practice Evaluation	• Explore the various applications of NLP in everyday life, such as chatbots, sentiment analysis, and automatic summarization. • Learn about the Text Normalization technique used in NLP and popular NLP model - Bag-of-Words • Understand Different types of Evaluation techniques Underfit, Perfect Fit, OverFit • Model Evaluation Terminologies-The Scenario - Prediction, Reality, True Positive, True Negative, False Positive, False Negative Confusion Matrix, Learn to make a confusion matrix for given Scenario • Learn about the different types of evaluation techniques in AI, such as Accuracy, Precision, Recall and F1 Score, and their significance.	Activity: Based on Confusion Matrix, Practice Evaluation
Dec	04		Revision for Pre-Board Examination			

****NOTE: Optional components shall not be assessed. They are for extra knowledge**