BAL BHARATI PUBLIC SCHOOL, DWARKA ANNUAL PEDAGOGICAL PLAN (2023-24)

Class IX



	ENGLISH							
MONTH	Working Days	COURSE CONTENT	LEARNING OUTCOME	SKILL	TEACHING METHOD			
April	18	Beehive- The Fun They Had Beehive - The Road Not Taken Moments- The Lost Child Writing- Story Writing Grammar- Verb Forms	 -To enable the students about Robots and Robotic Teachers. - Identify and explain the significance of essential elements in poetry. - To be able to use correct grammatical structure in a sentence. -Understanding and appreciation of the works of Robert Frost -Development of comprehension skills. -Understanding of literary devices 	Evaluate, analyze, recall, extrapolate, think critically	Guided Discussion Problem-solving based learning Peer teaching Self-assessment			
May	14	Beehive- Wind, The Sound of Music Moments- The Adventures of Toto Writing- Story Writing Grammar- Editing, Tenses	 To locate specific information while reading. To act as a scaffold to understand and empathize with the central character. 2 -To develop the students' critical thinking ability. To develop the skill to transcribe a text from one form to another. To develop an understanding of the main idea of the poem. Understanding and appreciation of the title Inculcating sensitivity towards animals Development of comprehension skills. Understanding of literary devices 	Evaluate, Recall, Extrapolate	Listening comprehension, Conversation / Dialogue, Symposium			
JULY	23	Beehive: The Little Girl, The Lake Isle of Innisfree Rain on the Roof Moments: Ishwaran The Storyteller In the Kingdom of Fools Writing- Diary Entry	To enable the learners to think creatively. Learning about characterization and self-analysis. To develop the students' critical thinking ability. To develop the skill to transcribe a text from one form to another. To develop an understanding of the main idea of the poem. Development of the skill to sequence events. Development of comprehension skills Understanding of literary devices.	Conceptualization Synthesizing Expressing Analytical thinking Simulate The collaborative effort and team spirit	Pair Work, Extempore, Written assignments			

AUGUST	23	Grammar Modals and Determiners Beehive: A Truly Beautiful Mind The Snake and the Mirror Moments- The Happy Prince Writing- Descriptive Paragraph Integrated grammar (Reported Speech)	To enable the learners to think imaginatively and write creatively. Learning about characterization. Use correct grammatical structures, organize and express ideas coherently To develop an understanding of the poem's main idea through the poet's perspective of life. To acquire grammatical accuracy Development of creative writing skills and comprehension skills To plan, organize, and present ideas in a coherent manner.	Analyze Empathy Visualize perceive	Dictionary, Internet, Newspaper, Smart Class Module
SEPT	21	Beehive: A Legend of the Northland My Childhood Writing- Descriptive Paragraph	To enable the learners to think creatively. Learning about characterization and self-analysis. To develop the students' critical thinking ability. To develop the skill to transcribe a text from one form to another.	Logical thinking Observational skills Recognize structure Evaluation	Research Work- Gathering Information Deductive Reasoning Group Work
OCT	21	Beehive: No Men are Foreign Reach for the Top Moments: The Last Leaf Grammar: Integrated grammar Writing: Story	To enhance the knowledge about poetic devices To develop the comprehension skills of the students. To enhance the ability to move beyond the text for extrapolation. To develop the writing skills of the students. The learners will be able to identify and explain the significance of essential elements in poetry. Read texts actively Recognize key passages; raise questions; comprehend the literal and figurative uses of language. Enhancement of the students' inferential skills	Conceptualization Synthesizing Expressing Analytical thinking Simulate Collaborative effort and team spirit	Guided Discussion Problem-solving based learning Peer teaching Self-assessment

NOV	19	Beehive: If I were you, A Slumber did my Spirit Seal Moments: A House is Not a Home Writing: Descriptive Paragraph	To facilitate the understanding of the text and enhance vocabulary. To enhance the ability to move beyond the text for extrapolation. Acquisition of grammatical accuracy. To develop the writing skills of the students. The learners will be able to identify and explain the significance of essential elements in poetry. Read texts actively: recognize key passages; raise questions; comprehend the literal and figurative uses of language. Enhancement of the students' inferential skills	Evaluate, analyze, recall, extrapolate, think critically	Listening comprehension, Conversation / Dialogue, Symposium
DEC	22	Beehive Kathmandu Moments The Beggar	To facilitate the understanding of the text and enhance vocabulary. To enhance the ability to move beyond the text for extrapolation Acquisition of grammatical accuracy to develop the writing skills of the students The learners will be able to identify and explain the significance of essential elements in poetry. Read texts actively: recognize key passages; raise questions; comprehend the literal and figurative uses of language. Enhancement of the students' inferential skills Teaching Aids /Resources	Evaluate, Recall, Extrapolate	Research Work- Gathering Information Deductive Reasoning Group Work
JANUARY	15	Beehive: On Killing a Tree Moments: -Revision Writing Skills: Descriptive Paragraph Writing	To enable the learners to think creatively. Learning about characterization and self-analysis. To develop the students' critical thinking ability. To develop the skill to transcribe a text from one form to another.	Logical thinking Observational skills Recognize structure Evaluation	Dictionary, Internet, Newspaper, Smart Class Module
FEBRUARY	23	Beehive and Moments: Revision Grammar & Writing	To facilitate the understanding of the text and increase vocabulary. To enhance the ability to move beyond the text for extrapolation	Analyze Empathy Visualize	Pair Work, Extempore, Written assignments

	Pavision	Exported Learning Outcome	norocius				
		Read texts actively: recognize key nassages: raise	perceive				
		questions: anneciate complexity and ambiguity:					
		comprehend the literal and figurative uses of					
		language. I The learners will have a better grasp					
		over the language.					
	LITERATURE-						
	Beehive - The Fun They Had; T	ne Road Not Taken; Wind;					
PT 1	The Sound of Music						
	Moments- The Lost Child; The	Adventures of Toto					
	LITERATURE-						
	Beehive - The Fun They Had; T	he Road Not Taken; Wind;					
	The Sound of Music; The Little Girl; The Lake						
Mid	Isle of Innisfree; Rain on the Roof;						
Term	Moments- Iswaran the Storyteller; In the Kingdom of Fools;						
	The Lost Child; The	Adventures of Toto; The					
	Happy Prince						
	GRAMMAR-						
	1.Editing						
	2. Omission						
	3.Transformation of Sentences						
	4.Parts of Speech (Articles, Prep	ositions, Conjunctions, Modals)					
	5.Tenses						
	6. Determiners						
	7.Subject-Verb Concord						
	8.Modals						
	9. Dialogue Writing						
	WRITING-						
	1. Diary Entry						
	2. Story Writing						
	3. Descriptive Paragraph						
	Portfolio/Notebook Submission	n (5 marks)					

	Subject enrichment- Brochure Making-Delhi and Sikkim(5 marks)
	Multiple assessment Choice Board (The Road Not Taken)
	Bookmark, PPT, Collage, Biography (5 marks)
	LITERATURE-
	Beehive- The Snake and The Mirror; My Childhood;
	No Men are Foreign; Reach for the Top, On Killing a Tree,
PT 2	Moments-The Last Leaf
	Grammar-Gap Filling, Editing, Dialogue Writing
Annual	Whole Syllabus
Exam	Portfolio/Notebook Submission (5 marks)
	Subject enrichment-Delhi and Sikkim– Folk Tales, Book Jacket (5 marks)
	Multiple assessment Choice Board (My Childhood)
	Bookmark, PPT, Collage, Biography (5 marks)

विषय - हिंदी

शिक्षण उद्देश्यः-

- 1) दैनिक जीवन में हिंदी में समझने-बोलने के साथ-साथ लिखने की क्षमता का विकास करना।
- हिंदी के किशोर-साहित्य, अखबार व पत्रिकाओं को पढ़ कर समझ पाना और उसका आनंद उठाने की क्षमता का विकास करना।
- 3) औपचारिक विषयों और संदर्भों में बातचीत में भाग लेने पाने की क्षमता का विकास करना।
- 4) हिंदी के जरिए अपने अनुभव संसार को लिखकर सहज अभिव्यक्ति कर पाने में सक्षम बनाना।
- 5) संचार के विभिन्न माध्यमों (प्रिंट और इलैक्ट्रॉनिक) में प्रयुक्त हिंदी के विभिन्न रूपों को समझने की योग्यता का विकास करना।
- 6) कक्षा में बहुभाषिक, बहुसांस्कृतिक संदर्भों के प्रति संवेदनशील सकारात्मक सोच बनाना।
- 7) अपनी मातृभाषा और परिवेशगत भाषा को साथ रखकर हिंदी की संरचनाओं को समझ पाना।

पाठ्य-पुस्तकें:-

- 1) स्पर्श (भाग-1) राष्ट्रीय शैक्षणिक अनुसंधान एवं प्रशिक्षण परिषद्
- 2) संचयन (भाग-1) राष्ट्रीय शैक्षणिक अनुसंधान एवं प्रशिक्षण परिषद्
- व्याकरण-कुंज पी॰पी॰ पब्लिकेशंस

माह	कार्य दिवस	विषय-वस्तु	उद्देश्य	कौशल	शिक्षण-युक्तियाँ
अप्रैल	अप्रैल 18	स्पर्श भाग-1 (गद्य खंड) - • दुख का अधिकार (पद्य खंड) -	 सामाजिक विषमता से ऊपर उठकर मानवीय सरोकारों से छात्रें को अवगत करवाना। भारतीय ग्रामीण परिवेश व संस्कृति की जानकारी। 	 नैतिक शिक्षा ग्रहण करेंगे। कल्पनात्मकता 	 इ-सामग्री स्मार्ट बोर्ड मॉड्यूल चर्चा विधि प्रश्नोत्तर विधि तार्किक चिंतन व्यावहारिक उदाहरणों से अनुभव लेखन शब्दकोश
		• रैदास (पद)	 करणीय-अकरणीय आचरण के प्रति छात्रें को सजग करना। भाषिक क्षमता का विकास करना। 	 अंधविश्वास व भेदभाव से ऊपर उठकर मानवीय मूल्यों में विश्वास प्रकट करेंगे। कुशल व्यवहार के लिए अभिप्रेरित होंगे। 	 सहायक पुस्तक परियोजना/ गतिविधि कार्य स्मृति मापन कहानी/कविता वाचन कहानी/कविता लेखन
		• रहीम (दोहे)	 दोहे के माध्यम से नैतिक मूल्यों का ज्ञान व जीवन के व्यावहारिक प्रयोग पर बल दिया जाएगा। 	• चिंतन कौशल	
		व्याकरण - • अनुस्वार • अनुनासिक • शब्द और पद	 शब्द संरचना से परिचित करवाना। भाषिक क्षमता का विकास करना। प्रयोग की विधि व आवश्यकता से परिचित करवाना। शब्द और पद के अंतर से सोदाहरण परिचित करवाना। 	 शब्द कोश में वृद्धि भाषा कौशलों का विकास 	
		रचनात्मक लेखन- • अपठित बोध • अनुच्छेद लेखन • संवाद लेखन	 भाषिक क्षमता का विकास। सृजनात्मक लेखन क्षमता का विकास व जानकारी। वार्तालाप कौशल व अवबोधन शक्ति का विकास व जानकारी। 	 सृजनात्मकता कल्पनात्मकता चिंतन कौशल 	
मई	14	संचयन भाग-1			• इ-सामग्री

		 गिल्लू स्मृति व्याकरण- उपसर्ग-प्रत्यय विराम चिह्न रचनात्मक लेखन- अपठित बोध अनुच्छेद लेखन 	 पशुओं के प्रति संवेदना का भाव जाग्रत करना। साहस, परिश्रम व दृढ़ निश्चय के बल पर चुनौतियों को स्वीकार करने हेतु छात्रें को अभिप्रेरित करना। शब्द-निर्माण की प्रक्रिया सिखाना। भाषिक क्षमता का विकास। वार्तालाप क्षमता का विकास करना। सृजनात्मक लेखन क्षमता का विकास करना। अर्थ ग्रहण व अवबोधन शक्ति का विकास करना। 	•	जीवों के प्रति सहानुभूति रखने हेतु अभिप्रेरित होंगे। विश्लेषण कौशल वैचारिक चिंतन का विकास सृजनात्मकता किल्पनात्मकता	स्मार्ट बोर्ड मॉड्यूल चर्चा विधि प्रश्नोत्तर विधि तार्किक चिंतन व्यावहारिक उदाहरणों से अनुभव लेखन शब्दकोश सहायक पुस्तकें परियोजना/ गतिविधि कार्य स्मृति मापन कहानी/कविता वाचन कहानी/कविता लेखन
जून	0	ग्रीष्मावकाश				
जुलाई	23	स्पर्श भाग-1 (गद्य खंड) - • एवरेस्ट मेरी शिखर यात्रा • तुम कब जाओगे अतिथि	 बचेंद्री पाल के साहसिक कार्यों व उनके जीवन से अवगत करवाना। अतिथि के लिए अपेक्षित शिष्टाचार एवं व्यावहारिकता से छात्रें को अवगत करवाना। 	•	विभिन्न सूत्रों की क्रमबद्ध जानकारी प्राप्त कर सकेंगे। चिंतन कौशल मानवोचित अच्छे गुण अपनाने हेतु अभिप्रेरित होंगे। मेजबान व मेहमान की आचार संहिता से परिचय।	इ-सामग्री स्मार्ट बोर्ड मॉड्यूल चर्चा विधि प्रश्नोत्तर विधि तार्किक चिंतन व्यावहारिक उदाहरणों से अनुभव लेखन शब्दकोश सहायक पुस्तकें

		व्याकरण- • अर्थ की दृष्टि से वाक्य भेद • स्वर संधि	 शब्द-निर्माण की प्रक्रिया सिखाना। शब्द-भंडार में वृद्धि करवाना। संधि के नियमों से अवगत करवाना। 	 बुद्धि परीक्षण भाषा प्रयोग कौशल 	 परियोजना/ गतिविधि कार्य स्मृति मापन कहानी/कविता वाचन कहानी/कविता लेखन
		रचनात्मक लेखन- • पत्र लेखन (अनौपचारिक)	 अन्वेषण (खोज-परख) सीख सकेंगे। संदेश लेखन के प्रारूप से अवगत करवाना। 	रचना कौशलकल्पनात्मकता	
अगस्त	23	स्पर्श भाग-1 (पद्य खंड) - • गीत -अगीत	 वातावरण के प्रति छात्रों को सजग करना। पर्यावरण की समस्या को समझने व दूर करने हेतु अभिप्रेरित होंगे। 	• वैचारिक चिंतन का विकास।	 इ-सामग्री स्मार्ट बोर्ड मॉड्यूल चर्चा विधि प्रश्नोत्तर विधि तार्किक चिंतन व्यावहारिक उदाहरणों से
		व्याकरण- • अर्थ की दृष्टि से वाक्य भेद • चित्र वर्णन रचनात्मक लेखन-	 भाषिक क्षमता का विकास करना। वाक्य-प्रयोग का उचित ज्ञान। चित्र प्रयोग का उचित ज्ञान। भाषा ज्ञान 	 सृजनात्मकता कल्पनात्मकता चिंतन कौशल 	 अनुभव लेखन शब्दकोश सहायक पुस्तकें परियोजना/ गतिविधि कार्य स्मृति मापन
		 अनौपचारिक पत्र लेखन 	 स्वतत्र लखन अनौपचारिक पत्र लेखन के प्रारूप से अवगत करवाना। 	• भाषक क्षमता का विकास	 कहानी/कविता वाचन कहानी/कविता लेखन
सितंबर	21	व्याकरण- • उपसर्ग-प्रत्यय • शब्द और पद रचनात्मक लेखन-	 शब्द-निर्माण की प्रक्रिया सिखाना शब्द और पद के अंतर से सोदाहरण परिचित करवाना। 	 भाषा कौशलों का विकास चिंतन कौशल 	 इ-सामग्री स्मार्ट बोर्ड मॉड्यूल चर्चा विधि प्रश्नोत्तर विधि तार्किक चिंतन व्यावहारिक उदाहरणों से

		 अनुच्छेद लेखन पत्र लेखन (अनौपचारिक) 	 कल्पना को शब्द-रूप देने हेतु अभिप्रेरित करना। समसामयिक विषयों व समस्याओं से अवगत करवाना। 	• तार्किक चिंतन का विकास	 अनुभव लेखन शब्दकोश सहायक पुस्तकें परियोजना/ गतिविधि कार्य स्मृति मापन कहानी/कविता वाचन कहानी/कविता लेखन
अक्टूबर	21	स्पर्श भाग-1 (गद्य खंड) - • वैज्ञानिक चेतना के वाहक : चन्द्रशेखर वेंकट रामन	 पूर्वाग्रहों से मुक्त होकर वैज्ञानिक मूल्य को स्पष्ट करना । 	• वैज्ञानिक मूल्यों का विकास।	 इ-सामग्री स्मार्ट बोर्ड मॉड्यूल चर्चा विधि प्रश्नोत्तर विधि तार्किक चिंतन व्यावहारिक उदाहरणों से अनुभव लेखन शब्दकोश सहायक पुस्तकें परिप्रेन्टन्य प्रतिविधि
		(पद्य खंड)- • अग्निपथ	 अनुचित साधनों का प्रयोग किए बिना जीवन के प्रत्येक संघर्ष का सामना करने के लिए अभिप्रेरित करना 	 संघर्ष का सामना करने के लिए अभिप्रेरित करना 	 परियोजना/ गोतीवांच कार्य स्मृति मापन कहानी/कविता वाचन कहानी/कविता लेखन
		रचनात्मक लेखन • संवाद लेखन • अपठित बोध	 भाषिक क्षमता का विकास सृजनात्मक लेखन क्षमता का विकास व जानकारी। वार्तालाप कौशल व अवबोधन शक्ति का विकास व जानकारी। 	 सृजनात्मकता कल्पनात्मकता 	

Tier	10	·			
नवबर	19	(पद्य खंड) - • नए इलाके में	 आधुनिक युग की तीव्र परिवर्तनशीलता से अवगत करवाना। 	 घात-प्रतिघातों का सामना करने की शक्ति का विकास। 	 इ-सामग्री स्मार्ट बोर्ड मॉड्यूल चर्चा विधि प्रश्नोत्तर विधि तार्किक चिंतन व्यावहारिक उदाहरणों
		 खुशबू रचते हैं हाथ 	 श्रामक समाज का दयनाय ास्थात क कारणा स अवगत करवाकर बदलाव के लिए प्रेरित करवाना। 		स • अनुभव लेखन • शब्दकोश • सहायक पुस्तकें
		व्याकरण - • स्वर संधि • विराम चिह्न	 संधि के नियमों से अवगत करवाना। भाषिक क्षमता का विकास 	 सृजनात्मकता कल्पनात्मकता चिंतन कौशल 	 परियोजना/ गतिविधि कार्य स्मृति मापन कहानी/कविता वाचन कहानी/कविता लेखन
		रचनात्मक लेखन- • पत्र लेखन (अनौपचारिक)	 भाषा ज्ञान, स्वतंत्र लेखन समसामयिक विषयों व समस्याओं से अवगत करवाना। 	 तार्किक चिंतन का विकास सृजनात्मकता 	
दिसंबर	22	स्पर्श भाग-1 (गद्य खंड) - • शुक्रतारे के समान	 छात्रों को सेवाभाव, कर्मठता, व्यवस्थित जीवन- शैली आदि गुणों से अवगत करवाकर अभिप्रेरित करना। 	• महादेव के गुणों से प्रभावित होकर छात्र उन्हें व्यवहार में लाने के लिए प्रेरित होंगे।	 इ-सामग्री स्मार्ट बोर्ड मॉड्यूल चर्चा विधि प्रश्नोत्तर विधि तार्किक चिंतन व्यावहारिक उदाहरणों से अनुभव लेखन शब्दकोश सहायक पुस्तकें परियोजना/ गतिविधि
		संचयन भाग-1	• उनाकोटी का महत्त्व स्पष्ट करना।	• कल्पनात्मकता	कार्य • कहानी/कविता वाचन

		 कल्लू कुम्हार की उनाकोटी मेरा छोटा सा निजी पुस्तकालय की अहम भूमिका से अवगत पुस्तकालय पुस्तकालय करवाना। शब्द संरचना से परिचित करवाना। भाषिक क्षमता का विकास करना। 	 नैतिक मूल्यों का विकास। कल्पनात्मकता शब्द कोश में वृद्धि भाषा कौशलों का विकास प्राच्यास्त्रा 	• कहानी/कविता लेखन
जनवरी	15	 अनुनासिक संपूर्ण पाठ्यक्रम से पुनरावृत्ति 	• सृजनात्मकता	
फरवरी	23	संपूर्ण पाठ्यक्रम से पुनरावृत्ति / वार्षिक परी	क्षा	
मार्च	20	वार्षिक परीक्षा		
आवधि परीक्ष	धेक T-1	<u>स्पर्श भाग-1</u> (गद्य खंड) - दुख का अधिकार (पद्य खंड) - रैदास के पद, रहीम के दोहे <u>व्याकरण</u> - अनुस्वार, अनुनासिक, शब्द और पद <u>रचनात्मक लेखन</u> - संवाद लेखन		
मध्यः परीक्ष	सत्र भा	स्पर्श (भाग-1) (गद्य खंड) - दुख का अधिकार, एवरेस्ट मेरी शिखर यात्रा, तुम कब जाअ	ोगे अतिथि	

	(पद्य खंड) - रैदास के पद, रहीम के दोहे, गीत-अगीत		
	<u> संचयन (भाग-1)</u>		
	गिल्लू ,स्मृति		
	व्याकरण		
	शब्द और पद, अनुस्वार, अनुनासिक, उपसर्ग, प्रत्यय, स्वर संधि,		
	विराम चिह्न ,अर्थ की दृष्टि से वाक्य भेद		
	<u>रचनात्मक लेखन</u>		
	अनुच्छेद लेखन, पत्र लेखन (अनौपचारिक), चित्र वर्णन, संवाद लेखन		
	<u>पठन</u>		
	अपठित बोध		
	<u>आंतरिक मूल्यांकन</u>		
	साहित्य ज्ञानवर्धन- (परियोजना कार्य - दिल्ली और सिक्किम) - 5 अंक		
	बहुविकल्पीय मूल्यांकन – (पसंदीदा बोर्ड गतिविधि) - 5 अंक		
	पोर्टफ़ोलियो - (पाठों पर आधारित गतिविधियाँ) - 5 अंक		
आवधिक	<u>स्पर्श (भाग-1)</u>		
परीक्षा-2	(गद्य खंड) - शुक्रतारे के समान		
	(पद्य खंड) - नए इलाके में, खुशबू रचते है हाथ		
		1	

	व्याकरण - उपसर्ग, प्रत्यय, अनुस्वार, अनुनासिक
	<u>रचनात्मक लेखन</u> - चित्र वर्णन
वार्षिक	स्पर्श (भाग-1)
परीक्षा	(गद्य खंड)दुख का अधिकार, एवरेस्ट मेरी शिखर यात्रा , तुम कब जाओगे अतिथि, वैज्ञानिक चेतना के वाहक : चन्द्रशेखर वेंकट रामन, शुक्रतारे के समान
	(पद्य खंड) - रैदास के पद, रहीम के दोहे, गीत-अगीत ,अग्निपथ, नए इलाके में, खुशबू रचते हैं हाथ।
	<u> संचयन (भाग-1)</u>
	गिल्लू, स्मृति,कल्लू कुम्हार की उनाकोटी, मेरा छोटा सा निजी पुस्तकालय
	<u>व्याकरण</u> - शब्द और पद, अनुस्वार, अनुनासिक, उपसर्ग, प्रत्यय, स्वर संधि, विराम चिह्न, अर्थ की दृष्टि से वाक्य भेद।
	<u>रचनात्मक लेखन</u> - अनुच्छेद लेखन, पत्र लेखन (अनौपचारिक), चित्र वर्णन, संवाद लेखन
	<u>पठन</u> - अपठित बोध
	आंतरिक मूल्यांकन
	साहित्य ज्ञानवर्धन- (परियोजना कार्य - दिल्ली और सिक्किम) - 5 अंक
	बहुविकल्पीय मूल्यांकन – (पसंदीदा बोर्ड गतिविधि) - 5 अंक
	पोर्टफ़ोलियो - (पाठों पर आधारित गतिविधियाँ) - 5 अंक

MATHEMATICS (CODE 041)

1. To provide the child with the basic mathematical concepts and skills needed to tackle everyday situations.

2. To build confidence, speed and accuracy in basic mathematical skills.

3. Maths lab activities to enliven the learning process and enhance the knowledge of the learners and maintain their interest in mathematics.

4. To motivate and encourage students to find solutions of their own.

RECOMMENDED BOOKS

- 1. Mathematics Textbook for class IX NCERT
- 2. NCERT Exemplar
- 3. Mathematics Lab Manual

Month	Course content	Learning objective	Skills	Teaching method/ Strategies
	Ch 1 : Number System	Students will be able to,	Logical thinking, Computational skills, Measurement, Critical thinking, Problem solving, Analytical thinking, Extrapolation, Conceptualization, Synthesizing, Expressing, Evaluation, recognize irrational numbers, Comprehend, Creativity Collaborative effort	1) Activity- To create colourful square root spiral.
		• recall representation of natural numbers, integers, rational numbers on the number line.	and team spirit.	 (Art Integration) 2)You tube modules 3)Brain Storming 4)Collaborative learning method 5)Guided discussion

				6)Think, pair and share
		 write rational numbers as recurring/ terminating decimals. use operations on real numbers. give examples of non-recurring/non-terminating decimals. explain existence of non-rational numbers (irrational numbers) such as √2, √3 and their representation on the number line. 		7)Inductive- Deductive reasoning
April (18)		 Define nth root of a real number rationalization of denominators of irrational numbers of the type c/(a+b√x) and d/(√x + √y) 		
		 where x and y are natural number and a, b, c and d are integers. recall the laws of exponents with integral powers. derive laws for rational exponents with positive real bases. 		
	Ch 2:	Students will be able to,	Logical thinking, Mathematical	1)Activity Method: - Verify algebraic identities
	Polynomials	• define polynomial in one variable with examples and counter examples.		

• identify polynomial with specified degree and classify them.	communication skills, Measurement, Critical thinking, Problem solving, Analytical thinking,	using origami
• identify and explain the coefficients, terms and zeroes of a polynomial p(x).	,Extrapolation, Conceptualization, Synthesizing, Expressing, Evaluation, Recognize irrational numbers, Collaborative effort and team spirit	2) You tube modules3)Numericalpractice4)Brain storming
• analyse that a quadratic polynomial can have at most 2 zeroes and a cubic polynomial can have at most 3 zeroes.		5) Tangram activity
• find zeroes of a polynomial.		6) Collaborative learning Method
• find the value of the polynomial at a given point.		7) Inductive – Deductive Method
• develop the ability to analyse that whether the given polynomial is divisible by another or not.		8) PowerPoint Presentation
• Explain and prove factor theorem and apply it to factorise the polynomial.		
• factorize polynomial $ax^2 + bx + c$, $a \neq 0$ where a, b and c are real numbers, and of cubic polynomials using the Factor Theorem.		
• recall algebraic expression and identities		
• verify the identities,		
$(x + y + z)^{2} = x^{2} + y^{2} + z^{2} + 2xy + 2yz + 2zx$ (x \pm y)^{3} = x^{3} + y^{3} \pm 3xy (x \pm y)		

		$x^{3} + y^{3} = (x + y)(x^{2} - xy + y^{2})$ $x^{3} - y^{3} = (x - y)(x^{2} + xy + y^{2})$ $x^{3} + y^{3} + z^{3} - 3xyz = (x + y + z)(x^{2} + y^{2} + z^{2} - xy - yz - zx)$ • Factorise the algebraic expression and understand their utility in computations.		
	Ch 2:			
	Polynomials	Contd		
May (14)	Ch-3 Coordinate Geometry	Students will be able to,	Logical thinking, communicating using mathematical terminology while doing abscissa and ordinates etc, Measurement, Critical thinking, Problem solving, analytical thinking, Conceptualization Synthesizing,	 To obtain the mirror image of a given geometrical figure with respect to both the axes using worksheet. Activity- Students
		• acquire knowledge and understanding the basic concepts and terms associated with the coordinate plane.	Observational skills, Evaluation,	will draw a design on a graph paper and will write the coordinates of the vertices.
		• describe the position of a point with reference to x- axis and y-axis.		(Art-integration)
		• write the abscissa and ordinate of a point.		3) Specify and describe location of

Coordinate Geometry	• differentiate between the position of (x, y) and (y, x)	Collaborative effort	the cities using
	• identify the coordinate of a point in a Cartesian plane.	and team spirit,	coordinate geometry.
	• use coordinate geometry in the given real-life situation.	representation	4)Integration with
		skills while plotting	social science
		coordinates	(latitudes, longitudes)
			5)Presentation
			6)Discussion method
			7)Collaborative
			learning
			8)Think, pair and
			share
			9) You tube modules

July (23)	Ch 4 : - Linear Equations in two variables	The students will be able to,	Logical thinking, Measurement, Critical thinking, Problem solving, analytical thinking, Conceptualization Synthesizing, Observational skills, Evaluation, Collaborative effort and team spirit	1)Activity method- Graph activity 2)Collaborative learning method 3)Activity- Integration with science
		• write linear equation in one variable and extend to that of linear equation in two variables.		4) Integration with Art (Activity method).5) You tube
		• write the equation in general form $ax + by + c = 0$.		modules 6)Interactive method 7)Think-pair and share
		• frame linear equations for a given situation.		8) Inductive- deductive reasoning.
		• explain that a linear equation in two variables has infinitely many solutions.		9)Brain storming
		• find solution of a linear equation in two variables algebraically.		
		• represent linear equations in two variables graphically.		
		• relate linear equations in two variables with real life situations.		
		• conclude that a linear equation in two variables has infinitely many solutions.		
		• conclude that every point on the line is solution of the equation and vice-versa.		

	Ch 5: -			
	Euclid's Geometry	The students will be able to,	Critical thinking, Logical thinking, Conceptualization, team spirit, visual and spatial ability, procedural thinking, creativity	1)Collaborative learning 2)Think, pair and share
		• observe and explain the history of geometry in India and Euclid's geometry.		3) Modules
		• define the terms like axioms, postulates and theorems.		4) PowerPoint presentation
		• Distinguish between axiom, postulate and theorem.		
		• Use the Axioms and five postulates of Euclid's to solve simple problems		
		• Show the relationship between axiom and theorem with examples.		
August (23)	Ch 6 : Lines and Angles	Students will be able to,	Procedural thinking while finding the angles, Critical thinking, Analyse, Empathy, visual and spatial ability, procedural thinking, Comprehension Creative thinking	1) To use figures, cut outs
		• acquire knowledge and understanding of basic concepts and geometric terms.		 2) Activity: -To verify that vertically opposite angles are equal by paper cutting and pasting method. 3)Group Activity: - Students will write their names using ruler and pencil on

	an A-4 size sheet and then they will mark different types of angles in them using colour pens.
• recognize types of pair of angles and classify them.	4)Project- Integration with architecture 5)Demonstration method 6)Collaborative learning
• prove that if two lines intersect then vertically opposite angles so formed are equal.	7) Think, pair and share
• acquire knowledge and understanding that if a ray stands on a line, then the sum of the two adjacent angles so formed is 180 ^o and its converse.	8) Modules
• explain that the lines which are parallel to a given line are parallel.	9) PowerPoint presentation
• use the above learnt concept in solving problems	10) GeoGebra

	 The students will be able to, recall congruent figures and identify them. define the concept of congruence of different objects and extend it to the congruence of triangles. 		
Ch 7 : Triangle	• understand that two triangles are congruent if any two sides and the included angle of one triangle is equal to any two sides and the included angle of the other triangle (SAS Congruence).	Critical thinking, Problem solving, Deductive reasoning, Comparison skills, analytical thinking, Conceptualization Synthesizing, Expressing, Evaluation, Logical thinking, Observational skills, Recognize structure, Simulation,	
	• Prove that two triangles are congruent if any two angles and the included side of one triangle is equal to any two angles and the included side of the other triangle (ASA Congruence).	Collaborative effort and team spirit.	
	• understand that two triangles are congruent if the three sides of one triangle are equal to three sides of the other triangle (SSS Congruence).		
	• explain that two right triangles are congruent if the hypotenuse and a side of one triangle are equal (respectively) to the hypotenuse and a side of the other triangle. (RHS Congruence)		
	• recognize and use various rules to show congruency of two triangles.		
	• solve questions using congruence rules.		

		• prove isosceles triangle property i.e, the angles opposite to equal sides of a triangle are equal.		
		• understand isosceles triangle property i.e, the sides opposite to equal angles of a triangle are equal.		
		• deduce that each angle of an equilateral triangle is 60° .		
		• reason effectively and critically examine about the congruence of triangles, rules of congruence and some more properties of triangles.		
		• use all congruence criteria's of triangles and property of isosceles triangle in solving questions.		
		• Feel the flow of reason while proving a result or solving a problem.		
September (21)	Ch 12:	Students will be able to,	Measurement, Numeracy Skills, Thinking skills, Critical thinking, Problem solving, Conceptualization Synthesizing, Expressing, Evaluation, Logical thinking, Reasoning, Evaluation, Analytical thinking,	1)Group Activity Method- To find area of different figures. 2)Brain storming 3)Collaborative learning method 4)Demonstration method
	Heron's Formula	 understand "Heron's formula" to find the area of a triangle. 	Collaborative effort and team spirit, Visual & spatial understanding, Creative thinking	5) Inductive- deductive reasoning

		• derive the formula for calculating the area of an equilateral triangle, isosceles right- angled triangle using 'Heron's formula'.	6) Think-pair and share
		• develop reverence and respect towards the great mathematician "Heron" and appreciate his contribution in the field of mathematics.	7) Lecture and Discussion Method
		• use Heron's formula to find the area of triangle whose three sides would be given.	8) PPT & Modules
		• apply Heron's formula effectively in solving problems of real-life situations.	9) GeoGebra
		• develop interest in mathematics as a problem – solving tool in various fields for its beautiful structures and patterns, etc.	
October (21)	Ch 8:	Students will be able to,	1) Activity method- Verify the mid-point theorem for a triangle by paper folding and cutting activity.
	Quadrilaterals	• define the properties of different quadrilaterals	2) To verify that the sum of both pair of opposite angles of a cyclic quadrilateral is 180° by activity method.
		• verify angle sum property of a quadrilateral.	3) Using figures, flash cards

• apply angle sum property of a quadrilateral in solving questions.
• identify the properties of a parallelogram.
• prove that the diagonal of a parallelogram divides it into two congruent triangles.
• Understand that in a parallelogram opposite sides are equal, and conversely.
• Understand that in a parallelogram opposite angles are equal, and conversely.
• Understand that a quadrilateral is a parallelogram if a pair of opposite sides is parallel and equal.
• Understand that in a parallelogram, the diagonals bisect each other and conversely.
• solve problems using properties and theorems of quadrilaterals.
• apply the properties of parallelogram to the real world.
• identify the criteria needed to prove a quadrilateral to be a parallelogram, rectangle, rhombus and square.
• verify mid-point theorem and its converse.

4) Modules 5)Brain storming 6)Collaborative learning method 7)Demonstration method 8) Think-pair and share 9) Activity method-Properties of quadrilateral will be proved using paper cutting and folding activity.

		 apply midpoint theorem and its converse in solving problems of real-life situations. Solve questions based on mid-point theorem and its converse. 		
November (19)	Ch 14:	The students will be able to,	Critical thinking, Problem solving, Creative thinking Deductive reasoning, Comparison skills, analytical thinking, Conceptualization Synthesizing, Expressing, Evaluation, Logical thinking, Observational skills, Recognize structure, Simulate,	1)Project method 2)Graph Activity Method-draw histogram.
	Statistics	• define raw data.	Collaborative effort and team spirit, Empathy, Visual and spatial ability, Procedural thinking	3) Collect problem situation from real life which can be resolved using statistics.
		• define the terms like statistics, data (primary, secondary).		4) Integration with science and social science.
		• construct a frequency distribution table to classify data.		5) Modules6) Interactive method7) Think-pair andshare
		• interpret data from the given bar graph.		8) Inductive- deductive reasoning
		• interpret data from the give histogram.		9) Brain storming 10)Collaborative learning

		 convert discontinuous class intervals into continuous class intervals represent the data using bar graphs, histograms represent the data using histograms (with varying base lengths) draw frequency polygons for the given data. apply the concept learnt in real life situations. acquainted with different aspects of mathematics used in daily life. 		
December (22)	C h 10 : Circles	 Students will be able to, identify circular objects present in the surrounding. arrive at definition of circle and related concepts- radius, circumference, chord, diameter, arc, secant, 	Critical thinking, Problem solving, Deductive reasoning, Comparison skills, analytical thinking, Conceptualization Synthesizing, Expressing, Evaluation, Logical thinking, Observational skills, Recognize structure, Simulate, team	 Activity- Properties of circle using GeoGebra Activity-Verify that the angles in the same segment of a circle are equal. (paper cutting and pasting method). Activity-Verify that the angle in semi- circle is a right angle by paper folding, pasting and cutting method. Activity-Verify

• understand the properties of circle.	different properties of
• understand different properties of circle through hands on activities.	circle by paper
• prove that equal chords of a circle subtend equal angles at the centre and understand it's converse.	folding, pasting and
• prove that the angle subtended by an arc at the centre is double the angle subtended by it at any point on the remaining part of the circle.	cutting method.
• explain that the perpendicular from the centre of a circle to a chord bisects the chord and conversely, the line drawn through the centre of a circle to bisect a chord is perpendicular to the chord.	5)Interactive method
• explain that the equal chords of a circle (or of congruent circles) are equidistant from the centre (or their respective centres) and conversely.	6)Think-pair and
• explain that the angles in the same segment of a circle are equal.	share
• explain that the sum of either of the pair of the opposite angles of a cyclic quadrilateral is 180° and its converse.	7)Inductive- deductive
• solve problems of circles using properties and theorems.	reasoning
• feel the flow of reason while proving a result or solving a problem.	8)Brain storming
	9)Modules
	10)Collaborative
	learning method

January (15)	Ch 13 : Surface areas and Volume	The students will be able to,	Logical thinking, teamwork, estimation, Measurement, Critical thinking, Problem solving, analytical thinking, quantitative reasoning, Expression, Conceptualization, Synthesizing, Expressing,	 Activity method- Using Nets (for deriving formula) Modules Demonstration Method- To use figures, geometry kit &3D shapes and solid shapes Activity Method- To find the surface area of a given solid using measurements.
		• find surface area of right circular cone, sphere, hemisphere.	Problem solving,	5) Demonstration method6) Interactive method7) Think-pair and share
		• find volume of right circular cone, sphere, and hemisphere.	Evaluation, Logical	8) Inductive- deductive reasoning
		• apply the concept of perimeter, area and volume in day-to-day life situations.	thinking,	9) Brain storming 10)Interactive method 11)Collaborative learning
		• apply the formula of surface area and volume of 3 d shapes in solving questions.	Observational	12) GeoGebra

	• to develop interest in mathematics as a problem – solving tool in various fields for its beautiful structures and pattern, etc.	skills, recognize				
		structure,				
		Evaluation,				
		Collaborative effort				
		and team spirit,				
		Empathy, Visualize				
PT-1	Ch 1: - Number System	· ·				
	Ch 1. Neurlan Sector					
	Ch 2: – Delynomials					
	Ch 2: - Polynomials					
	Ch 3: - Coordinate Geometry					
	Ch 5. Euclid's Geometry					
Mid	Ch 6: - Lines and Angles					
Term	Ch 0 Lines and Angles					
	INTERNAL ASSESSMENT 1					
	Subject Enrichment- Lab File(5 marks)					
	Multiple Assessment -Choice board Activity (5 marks)					
	Portfolio-Notebook Submission (5 marks)					
	Ch 7 [.] - Triangles					
PT-2	Ch 12: - Heron's Formula					
	Whole Syllabus					
Annual	INTERNAL ASSESSMENT 2					
Annual Exam	Subject Enrichment- Lab File(5 marks)					
L'Adill	Multiple Assessment- Choice Board Activity(5 marks)					
	Portfolio- Notebook Submission(5 marks)					

SOCIAL SCIENCE

HISTORY/CIVICS

Month	No Of Workin g Days	Course Content	Learning Outcome	Skills	Teaching Method
April	18	History Chapter 1: The French Revolution	-Familiarize students with the names of people involved, the different types of ideas that inspired the revolution, the wider forces that shaped it. -Know the use of written, oral and visual material can be used to recover the history of revolutions.	Conclude Collaborative effort Team spirit Analyze Empathy Visualize	 Class room discussions to compare and contrast the conditions prevailed in France that led to revolution with the conditions that led to the first war of Indian Independence. (1857). Graphic Organisers to critically examine the situations that made the raise in demand of Voting Rights by passive citizens as well as women • Debates to propose solutions to address such imbalances and discriminations that lead to revolutions Inquiry based learning to appraise the impact of the French

					revolution on the world. Conclude with group Presentations
May	14	Civics Chapter 1: What is Democracy? Why Democracy	 -Develop conceptual skills of defining democracy -Understand how different historical processes and forces have promoted democracy. -Develop a sophisticated defense of democracy against common prejudices. -Develop a historical sense of the choice and nature of democracy in India. 	Understanding Discussion Analyze Presentation Empathy Visualize Interpretation	 World café and Café conversations strategies for introduction of concepts of "Democracy, & features of Democracy 4 corners strategy to discuss "What & why of democracy? Students create democratic governance model in the class. Cartoon interpretation to summarize the benefits of democracy
July	23	Civics Chapter 2: Constitutional Design	 -Develop conceptual skills of defining democracy -To understand the need for the Constitution -Guiding values of the Indian Constitution -Develop respect for the Constitution and appreciation for Constitutional values -Recognise Constitution as a dynamic and living document 	Understanding Discussion Analyze Presentation Empathy Visualize Interpretation	 • Group Discussion to comprehend the purpose of constitution • Poster making/ wall magazine for Comparing and contrasting between Preamble of South African constitution with the preamble of Indian constitution • Role play strategy for creation of Indian constitution
		History ch5:Pastoralism in the Modern world	- Analyze the impact of modern states, marking of boundaries, contraction of pastures and expansion of markets on pastoralism in the modern world	Understanding Discussion Critical analysis	 T charts and similar graphic organizers to compare and contrast the lives of Pastoralists pre & post colonialism. Art integration to depict the evolution of nomadic society

August	23	History Ch 3:	-Discuss the critical significance of	Understanding	using resources provided to compare and contrast the lives and the reasons for poverty of pastoral nomads of India with African Pastoral Nomadic tribes. • Think- Pair- Share and summarize the reading of resources to analyze and infer varying patterns of developments within pastoral societies in different places in India • Watch Video clipping from the
		Nazism and Rise of Hitler	-Discuss the critical significance of Nazism in shaping the politics of modern world -Outline key political and social events that contributed to Hitler's rise to power -Get familiarized with the speeches and writings of Nazi leaders -Analyze examples of Nazi Propaganda	Critical analysis Visualize	 last days of Adolf Hitler and discuss the reasons for rise and fall of Hitler Dramatize the Nazi Propaganda /racial discrimination against Jews Cartoon interpretation/ Image interpretation Read passages from "Dairy of Anne frank "and other related literature and discuss the impact of Nazism • Jig saw strategy to critique the genocidal war waged against Jews by the Nazis

Sep	21	Civics Ch3: Electoral Politics.	 -Understand representative democracy via competitive party politics -Familiarize with Indian Electoral System -Reason out for the adoption of present Electoral System in India -Develop an appreciation for increased participation of citizens in -Electoral Politics -Recognize the significance of the Election Commission. 	Understanding Conclude Respecting self- relate Simulate Collaborative effort and team spirit Analyze Empathy Problem solving	 Role play /have school council elections. Design and present election manifesto Create multiple parties and create symbols for elections Use street play to create awareness about the right to vote.
Oct	21	History ch3:Socialism in Europe and the Russian Revolution	-Explore the history of socialism through the study of Russian Revolution -Familiarize with different types of ideas that inspired the revolution	Explore Understand Analyze	 Interactive Textual interpretations to compare and contrast the situations that led to the rise of Russian& French Revolutions Student led seminar to cite the impact of Collaboration and communication rendered by the philosophers and leaders in creating awareness amongst the common people World café' strategy to evaluate the situations that enabled Lenin's Communism. Socratic Discussions to Interpret the different ideas of philosophers and leaders that shaped the revolution
Nov	19		Discuss the social and cultural	Understanding	Inter Disciplinary Project with
		History Ch4: Forest society and colonialism	world of forest communities through the study of specific revolts -Understand how oral traditions can be used to explore tribal revolts	Discussion Critical analysis	Chapter 5 of Geography "Natural Vegetation and Wild Life
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Dec		Circles	-Analyze the impact of colonialism on forest societies and implication of scientific forestry	Hudend P	
Dec	22	Civics Chapter 4:Working of Institutions	 -Get an overview of Central government structures -Identify the role of Parliament and its procedures -Distinguish between political and permanent executive authorities and functions -Understand the parliamentary system of executives accountability to legislature -Understand the working of Indian Judiciary 	Understanding Discussion Analyze Differentiate Presentation Collaborative effort and team spirit Visualize Problem solving	 Watch videos of Parliament and discuss the importance of question hour Present Moot court to evaluate the rule of Law Examine the relevant case studies to evaluate the rule of law Present Mock Parliament session to convert a bill into law Conduct a mock interview with a parliamentarian Role play on features of the political and permanent executive
Jan	15	Civics: Ch5 Democratic Rights	 -Recognize the need for rights in one's life. -Understand the availability of rights in a democratic system -Identify and be able to comprehend the fundamental rights given by the Indian Constitution to its citizens -Create awareness regarding the process of safeguarding rights 	Understanding Discussion Identification Comprehend	 Declamation on need to have rights and the importance of performing duties. Debate the need to have rights in the light of study of Saudi Arabia. Case study to analyze the role of citizens when the rights are exercised or otherwise. 6 thinking hats to discuss the current issues. Organize a moot court to discuss the violation of individual rights.

					• Graphic organizer to summarize the coexistence of rights vs duties
Feb	23	Revision	To make the students recapitulate	Comprehend	.Guided Discussion
			the topics for the annual exam.	Discussion Problem Solving	-Problem solving based learning -Self-assessment
					CBSE sample papers will be
					Solved by the students to make
					them recapitulate the topics.

GEOGRAPHY

Month	No Of Working Days	Course Content	Learning Outcome	Skills	Teaching Methodology
April	18	India: Size and Location	 Explain the implication of the location of India & its vast size. Identify & locate standard meridian of India, Tropic of cancer & neighbouring countries. Define the concept of subcontinent & is able to identify countries part of Indian sub-continent. Differentiates between latitudes & longitudes. Appreciate the importance of India's relation with the world through ages. 	 Understand Application Comprehend Distinguish and differentiation Knowledge based Logical Reasoning Map skills 	 Use Geo Gebra, Google earth to represent and justify the reasons for the differences in climatic conditions, local and standard time. Carousel brainstorming strategy for inferring conditions and relationships of the people living in states that are sharing border with the neighbouring countries impact trade and culture.

			6. Develop the skill to locate importan latitudes & longitudes passing through India & neighbouring countries of India on the map.		(Link for Carousel Brain storming Strategy
			7. Appreciate and understand the implication of the vast longitudinal & latitudinal extent of India.		watch?v=zZxaS7v1-jo)
			8. Appreciate the reason why an ocean is named after India.		 On map of India hypothetically design two to four alternate longitudes on either side of 82 degree 30 minutes E and conclud on the selection Draw out the rationale/ reasons behind fixing (82)
					degrees 30 minutes E) as time meridian for India
					• PPT presentation to present alternate solutions
May	14	Physical Features of India	 Recognize the physical features Appreciate the diversity 	1. Understand2. Application	• Use Art integrated strategies like gallery walk/Model making to
			3. Compare all states of India with the physical features	3. Comprehend4. Distinguish	demonstrate how physical features make India a subcontinent.
			4. Identify the geographical regions of India	and differentiation	• Role play to depict the lives and relationships

			 5. Describe the movements of tectonic plates influencing the physical features 6. Describing, locating and Labeling of the features 7. Understand the major landforms and underlying geological structure; their association with various rocks and minerals as well as nature of soil types 	5. Knowledge based6. Logical Reasoning7. Map skills	amongst physiographic areas. • Collaborative brainstorming and presentation using different modes such as flipped books, Journals, Collage and other suitable presentations
July	23	Drainage	 Enlist the different rivers, the areas they serve and their impact on the economy of That area. Enumerate the different lakes and describe their contribution to the Indian ecology. Present creative solutions to overcome the water pollution also to increase the contribution of water bodies to Indian economy Identify the river systems of the country and explain the role of rivers in human society Justify the statement that the rivers are lifeline of economy with reference to India. 	 Understand Application Comprehend Distinguish and differentiation Knowledge based Logical Reasoning Map skills 	 Choice Board strategy where each group to take up one river and focus on the areas they serve and the impact on Economy of that area. Students will prepare a PPT on lakes. Street play strategy/poster making/save River songs/ to present awareness on water pollution and suggest solutions

			 6. Examine the information about different lakes and infer on their contribution to Indian ecology. 7. Distinguish between the rivers of north and south India 		
August & Sep.	44	Wildlife	 1. Explain wild life of India 6 Explain the Government efforts to protect the wildlife of our country 	 Understand Application Comprehend Distinguish and differentiation Knowledge based Logical Reasoning Map skills 	Inter disciplinary project with History chapter no IV "Forest Society and Colonialism "
October & Nov.	40	Climate	 Examine and analyze the factors that determine the climate of India Infer how the factors determine the climate of India. Analyze and infer the reasons behind the wide difference between day and night temperatures at 	 Understand Application Comprehend Distinguish and differentiation 	 Collect and Read the Weather reports and have a class room discussion to conclude about the factors controlling climate Watch videos and summarize the findings Use Mind map/graphic organizers to Enumerate and

			different geographical locations of	5. Knowledge	summarize the reasons for the
			India.	based	wide difference between the day
			4. To interpret how monsoon acts as a Unifying bond.	6. Logical Reasoning	and night temperatures at different geographical locations of India
			5. Analyse and infer the effect of monsoon winds on rainfall of the Indian subcontinent.	7. Map skills	• Read Newspapers, prepare and present mock drills on protocols as preventive action for various disasters
			6. Analyse the temperatures between plateau region, Himalayan region, desert region and coastal region.		
			7.Enumerate and summarize the reasons for the wide difference between temperatures at different geographical locations of India		
	8. Propose protocols action for various di	8. Propose protocols as preventive action for various disasters			
Dec	22	Population	1. Analyze and infer the reasons behind the uneven distribution of population in India with specification to UP & Bajasthan and Mizoram and	 Understand Application 	• Research based learning/ art integration strategy (4 grid analysis) to analyze and infer the
			Karnataka.	3. Comprehend4. Distinguish	distribution of population in India with specification to UP &
			2. Explain the population growth and the processes of population change	and differentiation	Rajasthan and Mizoram and Karnataka
			3 Identify different occupations of the people	5. Knowledge based	

			4 Explain various dimensions of National Population policy and understand the need of the adolescents as undeserved groups	6. LogicalReasoning7. Map skills	
January	15	REVISION			
February	23	REVISION			

ECONOMICS

April and	32	The Story of Village	1. Familiarize with basic concepts	Critical	• Visit a nearest village, interview a
May		Palampur (PT1 only)	through an imaginary story of a	thinking	farmer/ visit local markets and interview
			village	Understanding	farmers and present it in the class. (Experiential learning strategy)
			2. Evaluate the prevailing farming conditions in different states with	Comprehension	
			reasons	Distinguish	• Poster making/ Concept map and
			3. Examine the factors of production and interdependence of	Differentiate	gallery walk to Enlist the requirements of production and summarize the
			the requirements.	Evaluate	interdependence of these requirements.
			4. Examine the contribution of non-farm activities to the economic growth of the village.	Highlight	• Present a business plan for non-farm activities by using the four factors of production
			5. Analyze and infer how the prevailing farming conditions impact economic development of different states		
			6. Enlist the requirements of production and summarize the		

			interdependence of these requirements.7. Enlist non-farm activities and depict the link with economic growth.		
July and August	46	People as a resource	 Understand the demographic concepts Understand how population can be an asset and liability for the nation Understand different types of unemployment and affected people Examine the various factors that constitute the quality of population Analyze the role of government in improving the quality of population. Examine the factors that contribute to unemployment. Analyze and infer the reasons that contribute to the quality of population Examine the factors that contribute to the quality of population. 	Critical thinking Understanding Comprehension Distinguish Differentiate Evaluate Highlight	 Case study on quality of population. (Class room discussion) Collect sources from Newspaper/ Media and present the findings in the form of a collage or an album Neighbourhood survey on employment /employability in neighbourhood, analyze the quality of neighbourhood and present in PPT format.

			states and infer on the quality of people there by.9. Propose solutions to resolve unemployment problem		
Septembe r and October	42	Poverty as challenge	 Understand poverty as challenge Identify vulnerable groups and interstate disparities Appreciate the initiatives of government to alleviate poverty Comprehend that poverty is a multifaceted concept inherent in the rural and urban conditions. Examine the measures taken by the government to eradicate poverty Analyze and infer the reasons of poverty in the rural and urban areas. Evaluate the efficacy of government to eradicate poverty. Compare how poverty estimates have transformed from 1993-94 to 2011-12 Examine the link between education and poverty 	Critical thinking Understanding Comprehension Distinguish Differentiate Evaluate Highlight	 PPT presentation using case study given in NCERT text on the reasons of rural and urban poverty. Declamation with data to Evaluate the efficacy of government to eradicate poverty Debate whether education can remove poverty

Nov and Dec	41	Food security in India	1 Understand the concept of food	Critical	• Case study and group discussion to
			2 Appreciate and analyze the role of government in ensuring food supply	Understanding Comprehension	structured food security system and continuity of supply to masses.
			3. Examine the critical role of food security for its masses.	Distinguish	• Invite relevant Govt. officials to speak on FSI &PDS. Panel discussion/seminar
			4. Justify the rationale for the system of food security in India.	Evaluate	on the impact of the green revolution and PDS.
			 5. Appraise the contributory role of Public Distribution system to address FSI Substantiate the role of green revolution in strengthening the PDS. 6. Enumerate various aspects of food security that will ensure continuity of supply to the masses. 7. Examine, analyze and infer various sources of data that point to the rationale of FSI. 8. Enumerate different features of 	Highlight	
January	15	REVISION	PDS that directly address FSI.9. Analyze and infer the impact of Green revolution in strengthening the PDS.		

Feb	23	REVISION			
TERM 1		PT-1	History: Ch5		
			Civics: Chapter1		
			Geography: Chapter1		
			Economics:Chapter1		
		Mid-Term	History : Ch :1 and 3		
			Civics: Ch: 1,and 2		
			Geography: Ch: 1, 2, and 3		
			Economics: Chapter 2		
			Internal Assessment 1 :		
			Subject Enrichment: 5 marks(Art integrated)		
			Portfolio(project based) -5 marks		
			Multiple Assessment(choice board activity)-5 marks		
TERM -2		PT-2	History : Ch.3		
			Civics: Ch. 3		
			Geography Ch.4		
			Economics: Ch. 3		

Annual Examination	History: ch1,2,3,4		
	Civics: Ch1,2,3,4		
	Geo: Ch1,2,3,4,5,6		
	Eco: Ch2,3,4		
	Internal assessment 2 :		
	Subject Enrichment: 5 marks (Art integrated) Portfolio -5 marks (project based) Multiple Assessment:5 marks (choice board activity)		

SCIENCE PHYSICS

		Chapter 7: Motion–	Students will be able to:	• Sorting physical quantities as scalar and vector quantities.	• Smart Board Content (EXTRA MARKS)
		• Definition with examples	• get aware about meaning of rest and motion	• Represent motion graphically.	• Links from you tube.
		• Scalar and vector quantities	• The learners would be able to understand that rest and motion are relative.	• Solve numericals.	
		• Motion along a straight line	• Differentiate between distance and displacement.	• Improve and integrate fine arts in concrete learning.	• Associate mnemonic activity.
APRIL	18	• Distance, Displacement, Uniform motion, Non uniform motion, Speed, Average speed, Average velocity, SI units ,Numerical	• Identify and categorize scalar and vector quantities.	• State the uses of d-t graphs.	• 5 E's
		• Acceleration and retardation, Uniform acceleration, and non-uniform acceleration.	• Calculate the average speed in a given situation.	• Synthesize graphs representing different types of motion.	• STEAM
		Numericals	• State the examples of uniformly accelerated motion.		
		Graph: concept	• Understand the difference between acceleration and retardation.		

		and importance,	 evaluate the numerical value of different quantities and also associate it with their units. To correlate various physical quantities like distance, displacement, average speed, acceleration and retardation with day to day observations. 		
		<u>Practicals (Physics)</u> : To verify the laws of reflection of sound	• Integrate fine arts and mnemonic devices to develop skills to memorize.		
МАҮ	14	 Chapter 7: Motion (contd) Graphical representation of motion by d-t graph Calculation of speed from d-t graph. 	 Understand the importance of graphs for representing different types of motion. Identify the type of motion from d-t graph and v-t graph. Understand and evaluate speed, acceleration and distance from various graphs. 	 Develop numerical solving skills. Derive the three equations of motion graphically. Evaluate speed in circular motion 	 Smart Board Content (EXTRA MARKS) Links from you tube. Associate mnemonic activity.
		 Graphical representation of motion by v – t graph. Calculation of acceleration and distance from v-t graph Numericals based on graphs 		• Represent motion of given situation in graphical manner.	5 E'sSTEAM

		Numerical problems based on equations of motion.Uniform circular motion			
		<u>Practicals (Physics)</u> : To verify the laws of reflection of sound.			
		Chapter-8 Force and Laws of motion.	• understand force and its effects	• Differentiate between balanced and unbalanced forces.	• Smart Board Conter (EXTRA MARKS)
		• Force– Definition, effects, Types of forces, Balanced and unbalanced forces.	• Understand meaning of balanced and unbalanced forces.	• Evaluate the numerical value of force and momentum.	• Links from you tube
		• Inertia of a body, inertia and mass	• Understand newton's laws and their applications in daily life.	• Explain the laws of motion in various situations	• Associate mnemoni activity.
JULY	23	• Newton's First Law of motion	• Explain the terms like inertia, impulse and momentum.		• 5 E's
		• Definition of inertia.	• Calculate force acting on an object, the momentum associated with any moving object.		• STEAM
		• Reasoning questions based on first law.			
		• Newton's second law of motion			
		• Derive F=ma			

		PRACTICALS (Physics): To determine the density of solid (denser than water) by using a spring balance and a measuring cylinder.			
		Chapter-8 Force and Laws of motion (contd)	• Understand the concept of conservation of momentum.	• Calculate change of momentum in different situations.	• Smart Board Conter (EXTRA MARKS)
		• Newton's second law of motion(contd.)	• Apply the conceptual fact that there is conservation of momentum only if there is no external force.	• Use the second law in deriving force and integrate it with the three equations of motion in solving numericals.	• Links from you tube
		• Derive F=ma	• Understand the importance of newton's law of gravitation.		
AUG	23	• Momentum, definition and units Reasoning questions and numericals based on second law.			• 5 E's
		• Newton's third law of			• STEAM
		Reasoning Questions based on third law.			• Associate mnemoni activity.
		 Chapter 9: Gravitation. Introduction Newton's Law of gravitation 			
		Importance			

		 Numericals Free fall PRACTICALS (Physics): To determine the density of solid (denser than water) by using a spring balance and a measuring cylinder. 			
SEP	21	Chapter 9: Gravitation (contd)	• Differentiate between g and G; mass and weight.	• Evaluate the numerical value of g at different places like earth and moon.	• Smart Board Content (EXTRA MARKS)
		• Difference between 'g' and 'G'.	• Calculate quantities using equations of motion during a free fall.	• Calculate the weight of a given object on moon and earth.	• Links from you tube.
		• Derive formula of 'g	• Comprehend during free fall or a ball when thrown upwards, how 'g' varies.	• Apply the fact that mass is a constant anywhere in the universe.	
		• Value of 'g' on earth.	• Compare the weight of a body with different 'g'.		• Associate mnemonic activity.
		 Factors on which 'g' depends. Equations of motion during free fall. 			5 E'sSTEAM
		 Numericals based on free fall Difference between mass and weight. 			
		• Weight of an object on moon.			

		PRACTICALS (Physics): To establish the relation between the loss in weight of a solid when fully immersed in (a). Tap water (b) Strongly salty water, with the weight of water displaced by it by taking at least two different solids.			
OCT	21	Chapter 9: Gravitation (contd.)	• To relate thrust as a kind of force	• Learn to apply that a floating body loses all its weight.	• Smart Board Content (EXTRA MARKS)
		• Thrust	• To comprehend that pressure is the effect of force when it acts on a surface.	• Relate Archimedes' principle with floating objects.	• Links from you tube.
		• Pressure	• To explain the applications of thrust and pressure.	• Solve numericals on various bodies with varying densities in different liquids floating or sinking.	
		Applications	• Understand the concept of flotation.	• Comparison of densities of different substances.	• Associate mnemonic activity.
		• Numericals onThrust and pressure			• 5 E's
		Upthrust /BuoyancyWhy do objects float or sink?			• STEAM
		Archimedes PrincipleNumericalsDensity			
		• Numericals based on density			

		PRACTICALS (Physics): To establish the relation between the loss in weight of a solid when fully immersed in (a). Tap water (b) strongly salty water, with the weight of water displaced by it by taking at least two different solids.			
NOV	19	Chapter 10:Work and energy	• Understand the term work as defined in science.	• To analyse the various examples showing transformation of energy.	• Smart Board Content (EXTRA MARKS)
			• Apply the concept of scalar product even though force happens to be a vector quantity.	• Derive expression of KE and PE	• Links from you tube
		Introduction	• List all situations when work is said to be not done.	• Comprehend the billing process of commercial unit of electrical energy.	
		• Work done by constant force	• Identify and list different types of energy.	• Conserving natural resources and using electrical appliances at power saving mode.	• 5 E's
		• Positive and negative work	• Understand the phenomenon of transformation of energy.		• STEAM
		• Numericals	• Understand the relation between commercial and SI unit of energy.		
		Energy and its FormsKinetic energy			

		• Derive the expression for KE			
		 Numericals on KE Potential energy Derive the expression for PE 			
		 Numericals on PE Transformation of energy Law of conservation of energy Conversion of PE to KE during a free fall PE is path independent. Power Numericals PRACTICALS (Physics): To determine velocity of a pulse propagated through a stretched etaing (slink) 			
		Chapter 11: Sound	• Understand the phenomena of production as well as the propagation of sound	• Differentiate a pulse from a wave	• Smart Board Content (EXTRA MARKS)
DEC	22	• Introduction	• List various characteristics of a wave	• Sort the difference between wave velocity and particle velocity.	• Links from you tube.
		Production of sound	• Differentiate between different types of waves.	• Classify a longitudinal wave from a transverse wave.	• 5 E's

		• Propagation of sound	• Study the characteristics of a sound	• Compare speed of sound with that of light.	• STEAM
		• Types of waves	• Understand the phenomenon of reflection of sound.	• Segregate sound as pleasant, noisy, loud, soft and shrill or gruff.	
		(Longitudinal and transverse waves)	•		
		• Characteristics of a sound wave – Wavelength, speed, amplitude and frequency			
		Numericals			
		• Speed of sound in different media			
		• Characteristics of a sound (pitch, loudness, quality)			
		Reflection of sound			
		PRACTICALS (Physics): To determine velocity of a pulse propagated through a stretched string/slinky			
		• Echo	• Know about the conditions that are required for an echo to take place.	• Apply concept of multiple reflection of sound in real life situations.	• Smart Board Content (EXTRA MARKS)
JAN	15	• Numericals based on echo.	• Understand the meaning of reverberation	• Understand the concept of ultrasound in echolocation by bats.	• Links from you tube.
		• Reverberation	• Comprehend the concept of ultrasound and its applications.	• Calculate the distance using the concept of SONAR	• 5 E's

		 Uses of multiple reflection of sound Range of Hearing Infrasound Ultrasound Applications of ultrasound PRACTICALS (Physics): To determine velocity of a pulse propagated through a stretched string/slinky 	• List the applications of ultrasound	• Explain working of human ear	• STEAM
FEBRUARY	23	PHYSICS: Revision			
MARCH	20	Annual exams.			
PT 1		• Chapter 7: Motion			
Mid Term		 Chapter 7:Motion, Chapter 8:Force and laws of motion, Chapter 9:Gravitation (till free fall) 	Internal Assessment 1: S E A(5 MARKS)(art integration project)- Prepare a PPT(max 10 slides) on any 5 types of musical instruments of Sikkim mentioning the type of musical instrument(Wind,String or percussion) and the way sound is produced in them. PBA MID TERM(5 MARKS)Project based activity-Design and make a toy on any one of the following topics		

	• Mid Term (80 marks) Multiple Assessment (5 marks) Subject Enrichment (5 marks) Practical Based Assessment (5 marks) Notebook- (5 marks)	-laws of motion	
		-Positive, negative and zero work done	
		-Law of conservation of Energy	
		-Gravity	
DT 2	Chapter 9:Gravitation(full chapter)		
PT 2	• Chapter 10:Work and energy (full chapter),		
	Chapter 7: Motion		
	• Chapter 8:Force and laws of motion		
	• Chapter 9:Gravitation		
Annual exam	• Chapter 10: Work and energy		
CAUM	• Chapter 11: Sound		
	Annual Term(80 marks) Multiple Assessment (5 marks) Subject		
	Enrichment (5 marks) Practical Based Assessment (5 marks)		

			CHEMISTRY		
Month	Days	Course content	Learning outcome	Skills	Teaching method/ Strategies used
		CH – 1 MATTER IN OUR SURROUNDINGS	 Particulate nature of matter States of matter – sold, liquid, gas 	Understanding	 Use of e – content. Activity using lab manual demonstration
		 Physical nature of matter Characteristics of particles of matter 	 and their properties Nature of attraction between particles in each states 	 Identification 	 Interactive Board Smart class modules to visualise concepts
		• States of matter	• Matter can shift from one state to another under certain conditions	Analytical skills	• Art integration
APRIL	18	• Interconversion of states	• Effect of temperature and pressure on such changes	Recognition	• Activity-based learning through model making
		• Effect of change of pressure	• Definition of evaporation, sublimation, deposition		Classroom lectures
		• Evaporation	• Factors affecting evaporation, and its cooling effect		Animated videos
					• Interactive board modules
		PRACTICAL: TRUE SOLUTIONS,SUSPENSIONS AND COLLOIDS			•5 E's
MAY	14	CH – 2 IS MATTER AROUND US PURE	• Definition of pure substance	Differentiation	• Use of e – content.
		• Characteristics of pure substances	Identifying pure substances	Conceptual application	• Activity using lab manual demonstration
			• Differentiate between mixtures on the basis of their properties		Interactive Board
		• Types of pure substances	Easily recognise types of mixtures	Practical skills	• Smart class modules to visualise concepts

		• Elements	• Applications of different types of elements on the basis of their classification	Experimentation	• Art integration
		• Classification of elements – metals, non-metals and metalloids	Differentiation of element types	Arithmetic skills	• Activity-based learning through model making
		• Compounds	• Properties of metals, non-metals and metalloids		•Classroom lectures
		• Properties of compounds	•Types of chemical reactions		Animated videos
		• Mixtures			Numericals
		• Types of mixtures – homogeneous and heterogeneous mixtures			• Interactive board modules
		 Characteristics of mixtures 			•5 E's
		PRACTICAL:			
		Compounds and mixtures			
		CH – 2 IS MATTER AROUND US PURE(CONTD.)	Understanding of solubility	• Experimentation	• Use of e – content.
		• Solutions	• Differentiating between saturated and unsaturated solution	Practical application	• Activity using lab manual demonstration
JULY	23	• Aqueous, non-aqueous	• Factors affecting solubility of solutions	• Understanding	• Interactive Board
		• Characteristics of a solution		•Critical thinking	• Smart class modules to visualise concepts
		• Concentration of a solution			• Art integration
		• Suspensions			• Activity-based learning through model making

		• Characteristics of suspensions	• Distinguish between true solution, suspension and colloid on the basis of their properties		Classroom lectures
		• Colloid	• Various techniques of separation and why they are used		Animated videos
		Characteristics of Colloid	Practical usage of separation		Numericals
		• Separation of components of a mixture PRACTICAL:			Interactive board modules5 E's
		Physical and chemical changes			
			techniques • Understanding real-world application of separation techniques		
		CH – 3 ATOMS AND MOLECULES	• Definition of law of conservation of mass	• Visual understanding	•Use of e – content.
		• Laws of chemical combination	• Definition of law of constant proportion	Application	• Activity using lab manual demonstration
		law of conservation of mass& law of constant proportion	• Relate the postulates of Dalton's atomic theory with laws of chemical combination	• Critical thinking	Interactive Board
AUG	23	Dalton's atomic theoryWhat is an atom?	 Identification of chemical symbols Definition and formation of molecules 		 Smart class modules to visualise concepts Art integration
		• Atomic symbols	•Classification of molecules		• Activity-based learning
		Atomic mass	• Understand atomicities of similar and dissimilar elements		Classroom lectures
		Atomicity			Animated videos
		• Molecules	l	l	• Numericals

		• Molecule of an element and a compound			• Interactive board module
		Molecular formula Valency			•5 E's
		CH – 3 ATOMS AND MOLECULES (CONTD.)	• Positive and negative charges on atoms and molecules	•Conceptual application of ions and symbols	• Use of e – content.
		• Ions	• Utilising knowledge of ions to write chemical formulae	• Arithmetic skills	• Activity using lab manual demonstration
		• Types of ions	• Definition and significance of the mole in real world	• Critical thinking	• Interactive Board
		• Cations	• Unified mass, and calculation of unified mass of particles	• Real world application	• Smart class modules to visualise concepts
SEP	21	Anions			Art integration
		• Radical			• Activity-based learning through model making
		Ionic compounds			
		• Writing chemical formulas			Classroom lectures
		Mole concept			 Animated videos
					Numericals
					• Interactive board module •5 E's
		CH – 4 STRUCTURE OF ATOM	• Discovery of electrons and their properties	• Reflective thinking.	• Use of e – content.
ОСТ	21	• Electrical nature of matter	• Discovery of protons and their properties		• Activity using lab manual demonstration
		• Discovery of electron (cathode ray tube experiment)	• Drawbacks of each theoretical model	•Collaborating Learning	• Interactive Board
		• Discovery of proton	• Significance of Bohr's breakthrough		• Smart class modules to visualise concepts

			• Definition of atomic and mass		
		• Thomson's atomic model	numbers	•Critical thinking	• Art integration
		• Rutherford's scattering experiment			• Activity-based learning through model making
		Bohr's model of an atomAtomic NumberMass Number		• Problem solving	 Classroom lectures Animated videos Numericals Interactive board modules
		PRACTICAL: LAW OF CONSERVATION OF MASS			•5 E's
		CH – 4 STRUCTURE OF ATOM	•Rules governing Bohr's model	• Reflective thinking.	•Use of e – content.
		• Bohr-Bury scheme	•Electronic configurations of first 20 elements		• Activity using lab manual demonstration
		• Isotopes	• Difference between isotopes and isobars	•Collaborative Learning	• Interactive Board
NOV-		• Isobars	•Change in chemical properties and their uses		• Smart class modules to visualise concepts
DEC	41			•Critical thinking	• Art integration
				Problem solving	 Activity-based learning through model making Classroom lectures
					•Animated videos
					Numericals
				Reflective	
JAN	15	REVISION	The students will be able to: •Recapitulate their learning.	thinking.	• GuidedDiscussion.
			•Produce their learning in the form of written and oral assessment.	•Collaborative Learning	• Problem solving based learning

			 Reflect upon their interpretation skills. Reflect upon their writing and learning skills. 	•Critical thinking	• Numericals
FEB	23	REVISION			
PT1		CH-1 MATTER IN OUR SURROUNDINGS			
		CH-1 MATTER IN OUR SURROUNDINGS			
MID- TERM		CH-2 IS MATTER AROUND US PURE?			
PT2		CH-3 ATOMS AND			
		MOLECULES			
		CH-1 MATTER IN OUR SURROUNDINGS			
FINIAL		CH-2 IS MATTER AROUND US PURE?			
FINAL		CH-3 ATOMS AND MOLECULES			
		CH-4 STRUCTURE OF THE ATOM			

			BIOLOGY		•
Month	Days	Course content	Learning outcome	Skills	Teaching method/ Strategies used
APRIL	18	CH – 5 THE FUNDAMENTAL UNIT OF LIFE	The students will be able to: • race the discovery of cell • compare unicellular and multicellular organisms on the basis of their observation	Knowledge, Comprehension Evaluation, Analysis	 Demonstration cum lecture method Guided Discussion
			 differentiate between prokaryotic and eukaryotic cell on the basis of their structure recognize the different shapes and sizes of cells of different 	Analysis, Application Comprehension	Activity based teachingProblem solving based learning
		PRACTICAL:	organisms	Knowledge, Understanding	• Peer teaching
		To prepare temporary stained mounts of :		Application Analysis, Comprehension Knowldege, Comprehension,	
		a) onion peel		Analysis Problem solving, Logical thinking Evaluation, Analysis,	

		b) Human cheek cells and to record observations and draw their labelled diagrams.		Co-operative Learning Synthesis, Knowledge, Application, Creative Thinking	
MAY	14	CH – 5 THE FUNDAMENTAL UNIT OF LIFE (contd.)	 identify the components of plant cell and animal cell. relate the structure and functions of 	Knowledge Understanding	• Demonstration cum lecture method
			different components of plant and animal cells.	Evaluation Synthesis	Guided Discussion
		PRACTICAL:	 draw animal cell and plant cell and label their organelles. differentiate between animal cell and plant cell on the basis of their structure and function. 	Application, decision making Comprehension, Analysis Critical thinking	• Activity based teaching
		To prepare temporary stained mounts of :	• observe and discover the movement of molecules of substances of different concentrations into the cell and relate it to day to day activities.		
		a) onion peel	• appreciate the co-ordination and co- operation of different cell organelles for proper functioning of a cell.	Evaluation, Analysis	• Problem solving based learning
		b) Human cheek cells and to record observations and	• discover the environmental impact on diffusion and osmosis.		• Peer teaching

		draw their labelled diagrams.			
		CH – 6 TISSUES	The students will be able to:	Comprehension knowledge Analysis, Evaluation	• Guided Discussion
			• conceptualize the meaning of the term 'Tissue' with examples.	Comprehension, Critical thinking Comprehension, Evaluation, Analysis Synthesis, Analysis Problem Solving Analysis, Logical thinking Synthesis, Knowledge	
JULY	23	PRACTICAL:	• analyze the reason of having different types of tissue in plants and animals on the basis of different body design and needs.	Analysis, Comprehension	• Activity based teaching
		To identify parenchyma, collenchyma and sclerenchyma tissues in plants, striped, smooth and cardiac muscle fibers and nerve cells in animals from prepared slides and draw their labelled diagrams.	• compare different types of meristematic tissue on the basis of their location and function		
			• reason out the restricted growth of a plant or a branch through activity.		• Problem solving based learning
			• discover the relationship between different types of permanent tissueon the		

			basis of location, structure and function.•differentiate between meristematic tissue and permanent tissue		• Peer teaching
					• Demonstration cum lecture method
			on the basis of their structure and function.		
		CH – 6 TISSUES (contd.)	The students will be able to:	Application, Understanding, Analysis Analysis, Synthesis Comprehension	• Guided Discussion
AUGUST	23	PRACTICAL:	• discover the relationship between different types of permanent tissueon the basis of location, structure and function.•differentiate between meristematic tissue and permanent tissue on the basis of their structure and function.		• Activity based teaching
		To identify parenchyma, collenchyma and sclerenchyma tissues in plants, striped, smooth and cardiac muscle fibers and nerve cells in animals from prepared slides and draw their labelled diagrams.	• admire the role of tissue (xylem) in maintaing moisture in the atmosphere, water cycle etc. in nature	Evaluation, Analysis Synthesis	

				Comprehension, Application, Synthesis	 Peer teaching Demonstration cum lecture
SEPTEM BER	21	REVISION	Revision of chapter 5 and 6 for mid term		memod
			• classify different types of animal tissues on the basis of their structure and function.		Guided Discussion
OCTOBE R	21		• co-relate the structure, functions & location of different types of epithelial tissue.	Application, Creativity	
			• interpret the importance of having different types of tissues in different organs.		• Activity based teaching
		CH 6– TISSUES (contd.)	• categorize and interpret the importance of different types of connective tissue.		
			• establish the relationship between the	Synthesis Comprehension Application	• Problem solving based learning
				Evaluation Synthesis Comprehension	• Peer teaching
					Demonstration cum lecture method
			structure and function of nervous tissue.		
			• draw different types of plant tissues and animal tissues.		

			• appreciate the co-ordination of different types of tissues for proper functioning of an organ across and find ways to solve them.		
NOV	19	CH – 12 IMPROVEMENT IN FOOD RESOURCES	The students will be able to:	Analysis Comprehension Evaluation Comprehension Analysis, Application	• Guided Discussion
			Identify the nutrients required for growing plants.evaluate the effects of nutrient deficiency.		• Activity based teaching
			• adopt the different methods of preparing manure.	Application Knowledge	
			• compare the qualities of manure and fertilizers in maintaining soil fertility.		• Problem solving based learning
			• justify the benefits of organic farming in present day scenario.		
				Application Evaluation Comprehension	• Peer teaching
					• Demonstration cum lecture method
DEC	22	CH – 12 IMPROVEMENT IN FOOD RESOURCES	The students will be able to:		
		(contd.)	• adopt the different patterns of growing crops for improving the production.	Evaluation, Self awareness	

JAN	15	REVISION	• Recapitulate their learning.	•Collaborating Learning	• Problem solving based learning	
T A N T	1.5	DEUICEON	The students will be able to:	• Reflective thinking.	Guided Discussion.	
				Evaluation Synthesis Comprehension		
				Application		
			friendly activities of cultivation.	Analysis, Knowledge		
			• reasonize and adopt the see	Comprehension		
			possible solution.			
			do "Research work" to find out a			
			• analyze the hypothetical problems given by the teacher and			
			knowledge/concept in this lesson			
			• solve problems based on the			
			faming and apiculture.	-		
			• interpret the correct way of cattle farming, poultry, fish	Analysis Evaluation		
			using new techniques in crop			
			• assess the benefits and harm in			
				Synthesis Knowledge		
			weedicides and fertilizers.			
			• evaluate the harmful effects of			
			improving crop production	Environment awareness		
			some ancient techniques in	stress, Comprehension Evaluation Application		
			• analyze& appreciate the role of	Synthesis, Coping with		
			mixed farming.			
			• Produce their learning in the form of written and oral assessment	•Critical thinking	• Peer teaching	
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			• Reflect upon their interpretation skills.	•Problem solving		
	23		• Reflect upon their writing and learning skills.			
FEB		REVISION				
MARCH	H		FINAL	EXAMS		
PT1 PT1 – Chapter 5						
		Chapters 5, 6 (upto plant tissues)				
MID TERM		Multiple Assessment- (Mid Term)- Choice board- Chemistry Subject Enrichment (Mid Term)- Art Integrated activity Portfolio-(Mid Term)- (These marks include physics, chemistry and biology)				
PT2		PT2 – Chapter 6				
ANNUA EXAM	L	Chapter 5, 6 and 12 Multiple Assessment- (An Subject Enrichment (Annu WATER Portfolio-(Annual Exam) (These marks include physical endocement)	nual Exam)- Choice board al Exam)- Art Integrated activity - C - sics, chemistry and biology)	HEMISTRY- HOW DO	ES SOIL AFFECT THE pH OF	

Artificial Intelligence

BOOK NAME:- CBSE HANDBOOK

PART A:- EMPLOYABLITY SKILLS (10 Marks)

Unit 1 : Communication Skills (*)

- Unit 2 : Self-Management Skills (3 marks)
- Unit 3 : ICT Skills (3 marks)
- Unit 4 : Entrepreneurial Skills (4 marks)

Unit 5 : Green Skills (*)

* marked units are to be assessed through Internal Assessment/ Student Activities. They are not to be assessed in Theory Exams

PART B:- SUBJECT SPECIFIC SKILLS (40 Marks)

ϖ Unit 1: Introduction to Artificial Intelligence (AI)	(10 marks)
መ Unit 2: Al Project Cycle	(15 marks)
ច Unit 3: Neural Network	(5 marks)
ញ Unit 4: Introduction to Python	(10 marks)

PART C: PRACTICAL WORK (35 Marks)

PYTHON Practical file (15 marks)

(Unit 4: Introduction to Python Practical File with minimum 15 Programs)

PYTHON Practical exam	(15 marks)
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Viva Voce (5 marks)

PART D:- PROJECT WORK (15 Marks)

Project Work / Field Visit / Student Portfolio * relate it to Sustainable Development Goals

Month		Course Content	Learning Outcomes	<u>Pedagogical Strategies</u> Session / Activity / Practical/ Assessment	Skills
April	18	PART B- SUBJECT SPECIFIC SKILLS	To identify and appreciate Artificial Intelligence and describe its applications in daily life.	 Session: Introduction to AI and setting up the context of the curriculum Activity: Dream Smart Home idea Learners to design a rough layout of floor plan of their dream smart home. 	 Understanding Designing Critical thinking Problem solving
April	18	UNIT 1: Excite	To relate, apply and reflect on the Human-Machine Interactions. To identify and interact with the three domains of AI: Data, Computer Vision and Natural Language Processing. To undergo an assessment for analysing progress	 Activity: The AI Game Learners to participate in three games based on different AI domains. Game 1: Rock, Paper and Scissors (based on data) Game 2: Mystery Animal (based on Natural Language Processing -NLP) Game 3: Emoji Scavenger Hunt (based on Computer Vision -CV) Activity: AI Quiz (Paper Pen/Online Quiz) 	 Understanding Analysing Critical thinking Reflective thinking
	acquired AI-Readiness skills. To imagine, examine and reflect on the skills required for futuristic job opportunities. Activity: To write a letter Writing a Letter to one's fut self. Students will write a letter to self-keeping the futu in context. They will describe what they have learnt sc or what they would like to learn someday	Activity: To write a letter Writing a Letter to one's future self. Students will write a letter to self-keeping the future in context. They will describe what they have learnt so far or what they would like to learn someday	• Understanding •Critical thinking •Reflective thinking		
		Unit 1- Relate	Students will relate to application of Artificial Intelligence in their daily lives. To unleash their imagination towards smart homes and smart cities. To relate, apply and reflect on the Human-Machine Interactions.	Video Session: To watch videos on Smart cities and Smart Homes	 Understanding Analysing Critical thinking Problem Solving

				Session:	Understanding
		Unit 1- Purpose	To understand the impact of Artificial Intelligence on	 Introduction to UN Sustainable Development Goals 	• Analysing
			Sustainable Development Goals to develop responsible citizenship.	Activity: Set of pictures will be shown to the students and students will identify the Sustainable Goal. Students to answer questions on Sustainable Development Goals	 Critical thinking Problem Solving
May	14	PART B- SUBJECT SPECIFIC SKILLS Unit 4 Chapter 2 Introduction to Python Chapter 4 Lists in Python	Acquire introductory Python programming skills in a very user- friendly format.	 Session: Introduction to Python language Introducing python programming and its applications Practical: Python Basics Students go through lessons on Python Basics(Variables, Arithmetic Operators, Expressions, Data Types - integer, float, strings, using print() and input() Students will try some simple problem solving exercises on Python Compiler. Practical: Python Lists Students go through lessons on Python lists Students will try some basic problem solving compiler. 	 Understanding Computatio nal Thinking Identifying Critical Thinking Problem Solving
July	23	PART B- SUBJECT SPECIFIC SKILLS UNIT 1 Possibilities	 To research and develop awareness of skills required for jobs of the future. To imagine, examine and reflect on the skills required for the futuristic opportunities. To develop effective communication and collaborative work skills. 	 Session: Theme-based research and Case Studies Students will listen to various case-studies of inspiring start-ups, companies or communities where AI has been involved in real-life. Students will be allotted a theme around which they need to search for present AI trends and have to visualize the future of AI in and around their respective theme. Activity: Job Ad Creating activity Students will figure out how AI is going to transform the nature of jobs in future 	 Understanding Analysing Critical thinking Problem Solving

		AI Ethics	To understand and reflect on the ethical issues around AI. To gain awareness around AI bias and AI access.	 Video Session: Discussing about AI Ethics Activity: Ethics Awareness Various case studies will be discussed in the class and students will write their point of view about AI Ethics Session: AI Bias and AI Access Discussing about the possible bias in data collection Discussing about the implications of AI technology 	• U1 • A1 • Cr • Pr	nderstanding nalysing itical thinking oblem Solving
		Part A:- Employability Skills Unit 2: Self Management Skills	Apply stress management techniques Demonstrate the ability to work independently	 Guided Discussion Power point presentation Notes, Assignments and Pen and Paper Test Preparing a write-up on an essay on experiences during a holiday trip 	Und Ana Ide	lerstanding alysing ntifying
AUGUST	23	PART B- SUBJECT SPECIFIC SKILLS Unit 2: AI Project Cycle	Identify the AI Project Cycle framework.	 Tool Used:- Power point Presentation Session: Introduction to AI Project Cycle Problem Scoping Data Acquisition Data Exploration Modelling Evaluation 	•	Understanding Problem Solving Identifying Critical Thinking
			Learn problem scoping and ways to set goals for an AI project.	 Activity: Brainstorm around the theme provided and set a goal for the AI project. Discuss various topics within the given theme and select one. e.g. Restaurant Buffet problem List down/ Draw a mind map of problems related to the selected topic and choose one problem to be the goal for the project. 	•	Understanding Problem Solving Identifying Critical Thinking
		Problem Scoping	Identify stakeholders involved in the problem scoped. Brainstorm on the ethical issues involved around the problem selected.	 Activity: To set actions around the goal. List down the stakeholders involved in the problem. Search on the current actions taken to solve this problem. Think around the ethics involved in the goal of your project. 	•	Understanding Problem Solving Identifying Critical Thinking

	Understand the iterative nature of	Activity: Data and Analysis	ı
	problem scoping for in the AI	• What are the data features needed?	ı
	project cycle.	• Where can you get the data?	ı
	Foresee the kind of data required	• How frequent do you have to collect the data?	ı
	and the kind of analysis to be	• What happens if you don't have enough data?	1
	done.		I
	Share what the students	Presentation: Presenting the goal, actions and data.	ı
	have discussed so far.		I
Unit 2 AI Project	Identify data requirements and find	Activity: Introduction to data and its types.	1
Cycle - Data	reliable sources to obtain	Students work around the scenarios given to them and	i.
Acquisition	relevant data.	think of ways to acquire data.	1
Unit 2 AI Project	To understand the purpose of	Session: Data Visualisation	1
Cycle	Data Visualization	Need of visualising data	i.
Data Exploration		• Ways to visualise data using various types of	l.
		graphical tools.	1
	Use various types of	Activity: Let's use Graphical Tools	l
	graphs to visualise	• To decide what kind of data is required for a given	1
	acquiitu uata.	• To soloot on appropriate graphical format to represent	
		the data acquired	1
		Presenting the graph sketched	
		resenting the graph sketched.	1
	Understand, create and	Session: Decision Tree	
Unit 2 AI Project	implement the	To introduce basic structure of Decision	
Cycle	concept of Decision	Trees to students.	1
Modelling	Trees.		I
		Activity: Decision Tree	1
		• To design a Decision Tree based on the data	
		given.	

			Understand and visualise computer's ability to identify alphabets and handwritings.	 Activity: Pixel It To create an "AI Model" to classify handwritten letters. Students develop a model to classify handwritten letters by diving the alphabets into pixels. Pixels are then joined together to analyse a pattern amongst same alphabets and to differentiate the different ones. 		
SEPTEMBER	21	PART B- SUBJECT SPECIFIC SKILLS Unit 4 Python Python- Control Statements- if statement, for loop and while loop	Learning the concepts of loops- for loop and while loop	 Session with the help of Power-point presentation: Revision of Python Lists For loop, while loop Practical: Python loops with the help of Google colab- Python notebook Students will learn the concept of python loops. Students will learn for loop with the help of range() and in operator while loop programs Assessment/ Class Test- Online quiz 	• • •	Understanding Analysing Problem Solving Identifying Critical Thinking
OCTOBER	21	PART B: UNIT 3: NEURAL NETWORK:	Understand and appreciate the concept of Neural Network through gamification.	Session: Introduction to neural network • Relation between the neural network and nervous system in human body • Describing the function of neural network. Recommended Activity: Creating a Human Neural Network	•	Identifying Understanding Analysisng

				 Students split in four teams each representing input layer (X students), hidden layer 1 (Y students), hidden layer 2 (Z students) and output layer (1 student) respectively. Input layer gets data which is passed on to hidden layers after some processing. The output layer finally gets all information and gives meaningful information as output. 	
NOVEMBER	19	PART A- Unit 5: Green Skills	• Demonstrate the knowledge of importance, problems and solutions related to sustainable development	 Power-point presentations Notes&Assignment Pen and Paper Test Online Quiz ACTIVITIES Identify the problem related to sustainable development in the community Group discussion on the importance of respecting and conserving indigenous 	 Understanding Analysing Problem Solving Identifying Critical Thinking
		PART A- Unit 4: Entrepreneurial Skills	List the characteristics of successful entrepreneur	 knowledge and cultural heritage Powerpoint presentations Notes&Assignment Pen and Paper Test Online Quiz ACTIVITIES Writing a note on entrepreneurship as career option Collecting success stories of first generation and local entrepreneurs Listing the entrepreneurial qualities analysis of strength and weaknesses Group discussion of self- qualities that students feel are needed to become successful 	 Understanding Analysing Problem Solving Identifying Critical Thinking
		PART A- Unit 1: Communication	 Demonstrate knowledge of various methods of communication Provide descriptive and specific 	 entrepreneur PowerPoint presentations Notes Assignment Pen and Paper Test & Online Quiz 	Understanding Analysing Problem Solving

DECEMBER	22 15	Skills PART A- Unit 3: Basic ICT Skills	 feedback Apply measures to overcome barriers in communication Apply principles of communication Demonstrate basic writing skills Distinguish between different operating systems Apply basic skills for care and 	 PowerPoint presentations Demonstration Notes 	Identifying Critical Thinking Ounderstanding Analysing Problem Solving
			maintenance of computer	Assignment Pen and Paper Test & Online Quiz	• Identifying Critical Thinking
FEB MAR	23 20	Revision and Annual Exam	 The students will be able to: Recapitulate their learning. Produce their learning in the form of written and oral assessment. Reflect upon their interpretation skills. Reflect upon their writing and learning skills. 	 Guided Discussion. Problem solving based learning Peer teaching 	 Reflective thinking. Collaboratin g Learning Critical thinking Problem solving
PT1			PT1 AI:- Part B-Unit 1(Excite, Relate, Pur Python:- Chapter 1,2 (Pg 10-23, 29-42 Multiple Assessment (5 marks) Practical Based assessment (5 Marks) Note Book Submission (5 Marks)	rpose) (Pg 9,10, 14- 39)	

	AI:- Part B- Unit 1 (Excite, Relate, Purpose, Possibilities, AI Ethics), Unit 2 Pg 82-97	
MID TERM	Python:- Chapter 1, 2 (Pg 10-23, 29-42), Chapter 4 (Pg65-74)	
	Employability skills- Self Management Skills	
	Practical:- Midterm exam for 50 marks	
	Multiple Assessment (5 marks)	
	Practical Based assessment (5 Marks)	
	Note Book Submission (5 Marks)	
DT2	PT3	
F 1 2	AI:- Part B- Unit 3	
	Python:- Chapter 5 (Pg 75-85),	
	Employability skills- Entrepreneurial Skills	
	Multiple Assessment (5 marks)	
	Practical Based assessment (5 Marks) Note Book Submission (5 Marks)	
ANNUAL EXAM	100% syllabus for 50 marks.	

संस्कृतम्

अधिगम-उद्देश्य

2. संस्कृत भाषा के शुद्ध उच्चारण पर बल देना |

- 3. नैतिक मूल्यों एवं अनुशासन आदि भावों का विकास करना | 4. विद्यार्थियों में संस्कृत लिखने ,पढने व समझने के लिए रूचि उत्पन्न करना |

पाठ्यपुस्तकानि

1. 'मणिका' प्रथमो भाग: पाठ्यपुस्तकम् (प्रकाशनम्-केन्द्रीय माध्यमिक शिक्षा बोर्ड)

2. 'मणिका-अभ्यासपुस्तकम्'-प्रथमो भागः - (प्रकाशनम्-केन्द्रीय माध्यमिक शिक्षा बोर्ड)

मासा:		विषय-वस्तु:	शिक्षणोद्देश्य:	कौशल	शिक्षण-युक्तियाँ
	कार्य- दिवसा:				
अप्रैल	18	पाठ -१ अविवेकः परमापदां पदम् पाठ:-२ पाथेयम् व्याकरणम् – संस्कृतवर्णमाला (वर्तनी- उच्चारणस्थानानि) स्वरसन्धि:- >दीर्घः, गुण, वृद्धिः, यण्, अयादि >व्यञ्ज़नस्सन्धिः - वर्गीप्रथमवर्णस्य तृतीयवर्णे परिवर्तनम् (जश्त्वसन्धिः), 'म स्थाने अनुस्वारः >विसर्गसन्धिः – उत्वम् , शत्वम् ,षत्वम् , सत्वम्	>छात्र पाठ के माध्यम से जानेंगे कि बिना विचारे किए गए कार्य से जीवन में बहुत बड़ा संकट उत्पन्न हो सकता है , अतः सोच-समझकर ही किसी भी कार्य को करना चाहिए। > छात्र सुभाषितश्लोकों में निगूढ संस्कृत एवं भारतीय संस्कृति के अनुपम ज्ञान एवं संदेश को आत्मसात् करेंगे। > छात्र पाठ में आये नवीन शब्दों को ग्रहण कर सकेंगे।	> कल्पनाशीलता > विश्लेषणात्मकता > आत्मचिंतन > भावात्मकता	> उदाहरण विधि > आगमन एवं निगमन विधि > दृश्य-श्रव्य सामग्री द्वारा शिक्षण
मई	14	रचनात्मककार्यम्- > अपठित-अवबोधनम् > चित्रवर्णनम् > संवादः/कथापूर्तिः > अनुवादः व्याकरणम्- शब्दरूपाणि (पुल्लिङ्गशब्दाः) >अजन्ताः - कारान्त - बालकवत्, इकारान्त- कविवत् ,उकारान्तसाधुवत्	> पाठ के माध्यम से छात्र पौराणिक कथानकों से परिचित होंगे। > छात्रों के वाचन एवं पठन कौशल का विकास होगा	> सृजनात्मकता > काठिन्य-निवारण > कल्पनाशीलता	> प्रत्यक्ष विधि > व्याख्यान विधि > आगमन एवं निगमन विधि > दृश्य-श्रव्य सामग्री द्वारा शिक्षण

		> हलन्तः – भवत्			
		(स्त्रीलिङ्गशब्दाः)			
		>अजन्ताः - आकारान्त-लतावत्>ईकारान्त- नदीवत्			
		(नपुंसकलिङ्गशब्दाः)			
		>अजन्ताः – अकारान्त-फलवत्			
		(सर्वनामशब्दाः)			
		अस्मद्, युष्मद्, तत्, किम् (त्रिषु लिङ्गेषु)			
जून	00				
जुलाई	23	पाठः – ३ विजयता स्वदेशः	> छात्री में अच्छे चरित्र , आचरण एवं परोपकार की भावना	> सृजनात्मकता	> प्रत्यक्ष विधि
		रचनात्मककार्यम्-	विकसित होगी।	> विश्लेषणात्मकता	> व्याख्यान विधि
		> अपठित-अवबोधनम्	> छात्रो में महाराणा प्रताप के जीवन चरित्र से देशभक्ति की	> भावात्मकता	> समस्या समाधान विधि
		> चित्रवर्णनम्	भावना का विकास होगा।	> काठिन्य-निवारण	> प्रदर्शन विधि
		> संवादः/कथापूर्तिः	> छात्र पाठ में निहित मौलिक ज्ञान को अपने जीवन में उतार		> दृश्य-श्रव्य सामग्री द्वारा
		> अनुवादः	पाएँगे साथ ही माता-पिता के महत्व को समझेंगे		शिक्षण
		धातुरूपाणि>			
		> (परस्मैपदिनः)- भू, नम्, गम्, अस्, प्रच्छ्, कृ, ज्ञा,			
		क्षाल्, नी (पञ्चसु लकारेषु)			
		> (आत्मनेपदिनः)सेव्, लभ् , रुच् (लट्लकारे			
		लृटलकारे च)			
अगस्त	23	पाठः – ४ विद्यया भान्ति सद्गुणाः	> पाठ के माध्यम से छात्र पञ्चतन्त्र की रचना के प्रमुख	> रचनात्मकता	> समूह चर्चा
		पाठः- ५ कर्मणा याति संसिद्धिम्	उद्देश्य एवं सद्रुणों के निर्माण में विद्या के महत्व को जानेंगे।	> कल्पनाशीलता	> आगमन एवं निगमन विधि
		>कारक-उपपद-विभक्तयः	> पाठ के माध्यम से छात्र जानेंगे कि अहङ्कार ज्ञान को नष्ट	> विश्लेषणात्मकता	> उदाहरण विधि
		हितीया –समया/निकषा, प्रति, विना,	कर देता है एवं कर्मनिष्ठता से व्यक्ति सभी सिद्धियों को प्राप्त	> काठिन्य निवारण	> व्याख्यान विधि
		परितः, उभयतः	कर सकता है।		
		ततीया - सह/ समम/ सार्धम विना	> छात्र प्राचीन संस्कृत कथानकों से परिचित होंगे।		
		अलम, हीन	> छात्रों के पठन-वाचन कौशल का विकास होगा।		
		🕨 चतुर्थी - रुच्, दा (यच्छ्), नमः, कुप्,			
		अलम् (सामर्थ्ये)			
		पञ्चमी - विना, बहिः, भी, रक्ष्			
		षष्ठी -उपरि, अधः, परतः, पष्ठतः, वामतः			
		दक्षिणतः			
L	1			l	1

		🕨 सप्तमी -स्निह्, विश्वस्, निपुण, कुशल			
सितम्बर	21	पाठः-६ तत् त्वम् असि >पठित- अवबोधनम् (गद्यांश,पद्यांश,नाट्यांश, श्लोकान्वय:,>प्रश्न- निर्माणम् >घटनानुसार कथा-लेखनम् >प्रश्नानां निर्माणम्-(एकपदेन ,बहुविकल्पात्मका:) > अपठित-अवबोधनम् > रचनात्मककार्यम्- >अनुच्छेदः >संवाद: /कथापूर्तिः >पत्रम्	>पाठ के माध्यम से छात्र जानेंगे कि अहङ्कार ज्ञान को नष्ट कर देता है। > छात्र पाठ के माध्यम से ज्ञान के महत्व को समझेंगे एवं उसे प्राप्त करने के लिए अत्यंत धैर्य की आवश्यकता होती है ये जानेंगे। > छात्र पाठ को पढ़ सकेंगे एवं संस्कृत के नवीन शब्दों से परिचित होकर वाक्य निर्माण कर सकेंगे	> आत्म-चिंतन > विश्लेषणात्मकता	> प्रत्यक्ष विधि > समूह चर्चा > आगमन एवं निगमन विधि > उदाहरण विधि
अक्टूबर	21	>चित्रवर्णनम >भाषानुवादः पाठ-७ तरवे नमोऽस्तु	>छात्र पाठ के माध्यम से निरन्तर सत्कार्य करने वाले महान्	> रचनात्मकता	> समूह चर्चा
6		 अव्ययानि स्थानबोधकानि- अत्र, तत्र, अन्यत्र, सर्वत्र, यत्र, एकत्र, उभयत्र कालबोधकानि- यदा, तदा, सर्वदा, एकदा, पुरा, अधुना, अद्य, श्वः, ह्यः प्रश्नबोधकानि- किम्, कुत्र, कति, कदा, कुतः, कथम्, किमर्थम् अन्यानि- च, अपि, यदि, तर्हि, यथा, तथा, सम्यक्, एव प्रात्यया: (क्त्वा, तुमुन त्थप्,,शतृ) अपठित-अवबोधनम् रचनात्मककार्यम्- अनुच्छेदः संवाद: /कथापूर्तिः 	वृक्षों का हमारे जीवन में कितना महत्व है, इस विषय को समझेंगे। > छात्रों को प्रत्ययों के प्रयोग में निपुण बनाना	> कल्पनाशीलता > विश्लेषणात्मकता > काठिन्य निवारण > आत्मचिंतन	> आगमन एवं निगमन विधि > उदाहरण विधि > व्याख्यान विधि > समस्या समाधान विधि > दुश्य-श्रव्य सामग्री द्वारा शिक्षण

				т	1
		>चित्रवर्णनम			
		>भाषानुवादः			
		> संख्याः – 1-100 (1-4 केवलं प्रथमा विभक्तौ)			
नवम्बर	19	पाठ-८ न धर्मवृद्धेषु वयः समीक्ष्यते	>पाठ के माध्यम से छात्र जानेंगे कि ज्ञानवृद्ध मनुष्य का	> वाचन कौशल	> समूह चर्चा
		पाठ -९ कवयामि वयामि यामि	महत्व वयोवृद्ध मनुष्य से कई अधिक होता है।	> विश्लेषणात्मकता	> आगमन एवं निगमन विधि
		व्याकरणम्-	>छात्र राजा भोज के महान् जीवनचरित्र से परिचित होंगे।	> भावात्मकता	> उदाहरण विधि
		>अपठित-अवबोधनम्	, ,	> काठिन्य-निवारण	> व्याख्यान विधि
		>रचनात्मककार्यम्-			
		>अन्च्छेदः			
		्र >संवाद: /कथापर्तिः			
		>पत्रम			
		>चित्रवर्णनम			
		>भाषानवादः			
दिसम्बर	22	पाठ-१० भारतीयम विज्ञानम (केवलम	>छात्र भारतीयसंस्कृति एवं संस्कृत में छिपे विज्ञान के	> विश्लेषणात्मकता	> प्रत्यक्ष विधि
• • • • • •		आन्तरिकमल्याङकनाय)	महत्वपर्ण रहस्यों से परिचित होंगे।	> काठिन्य-निवारण	> समह चर्चा
		पाठ-११ भारतेनास्ति मे जीवनम जीवनम (केवलम	>पाठ में दिए गए पद्यों के माध्यम से छात्रों में		> उदाहरण विधि
		आन्तरिकमल्याङकनाय)	मातभमिभारतभमि के प्रति त्याग स्नेह एवं भक्ति की भावना		
		व्याकरणम-	का विकास होगा।		
		>अपरित-अवबोधनम			
		>JELE			
		~रपपालनगणनन्-			
		>บาๆ ของ. >มีสาว. /สุดแบลิ์ง			
		< प्रत्म >चित्रत्याचिम			
जनवरी	15	्रमायानुयायः	लान परित पार्ने की प्रत्याननि कोंगे पनं तन्यांनंधित	्र शताग ताच्य	्र ग्रन्थ निधि
जनवरा	15	yntiqia.	अत्र पाठत पाठा का पुनरापृति करने एव तत्सवायत करियार्टओं का नियकणा कोंगे	> त्रपण-पापन कौणल	> प्रापदां पाव > प्रापट सर्चा
			काठनाइआ का निराकरण करन	फाराल २ एक एक ाकता	२ समूरु पया > ज्वादाण निधि
				> सृजनारमकता > विशेषणानाकना	/ उपारुरण ।पाप
ान्चर्ना	22		लान परित पार्से की प्रसाननि क्रोंगे पतं नत्यांनंधिन	> विश्वेषणात्मकता	्र गणद नर्ना
भग्रभरा	23	yuu	هام ۲۰۵۲ ۲۰۵۱ می باد برای ۲۰۰۶ و ۱۰۰ می است. محکت خیاب می است.	> विन्ह्रवेणारमकर्णा > सावित्रा विवागण	> तनूर पपा
	- 20			> फााठन्थ-ानवारण	<u> </u>
माच	20	्युनरावृात:	छात्र पाठत पाठा का पुनरावृति करेगे एव तत्सबाधत	> वन्स्रपणात्मकता	> समूह चर्चा
			काठनाइआ का निराकरण करग	> काठिन्थ-ानवारण	

पूर्वमध्य-सत्र	मणिका–पाठ -१,२
(पी.टी१)	व्याकरणम् – अपठित-अवबोधनम् ,संवाद:,संधिः,चित्रवर्णनम्, संस्कृतवर्णमाला (वर्तनी- उच्चारणस्थानानि)
मध्य-सत्र	मणिका - पाठ-१,२,३,४,५
	व्याकरणम् अपठित-अवबोधनम् ,पत्रम्,संवाद:,संधि , वर्तनी- उच्चारणस्थानानि,चित्रवर्णनम्, धातुरूपाणि, शब्दरूपाणि, उपपदविभक्तयः, अनुवाद:
	आंतरिक-मूल्यांकनम्
	1. बहुविध-मूल्यांकनम् - (छात्राः स्वेच्छया 'विकल्पफलकेन' कमपि गतिविधिमाध्यमं विचित्य छात्रजीवने सद्गुणानां वृद्धये विद्यायाः महत्वम् इति विषयं
	प्रतिपादयिष्यन्ति ।)
	2. विषयसम्वर्धन-गतिविधिः -
	('पर्यावरण-संरक्षणे सिक्किम-राज्यस्य योगदानम्' इति विषयमधिकृत्य पी.पी.टी/ दृश्य-श्रव्य-प्रदर्शन/चित्रकला चेत्यादीनां निर्माणं कृत्वा संस्कृतभाषायां प्रदर्शयिष्यन्ति।
	3. निवेशसूचिः(Portfolio)/गतिविधय: ((छात्राः 'योगः कर्मसु कौशलम्' इत्यस्मिन् विषये A3 पृष्ठे चित्राणि निर्माय संस्थाप्य वा तस्य विषये संस्कृतभाषायां दश-
	वाक्यानि लेखिष्यन्ति ।)
	4. परियोजनाधारित-गतिविधिः - ((छात्राः आपणकेन्द्रस्य प्रतिरूपनिर्माणं कृत्वा संस्कृतभाषायां तस्य विषये वदिष्यन्ति ।)
उत्तरमध्य-सत्र	मणिका - पाठ- ६,७ , ८
(पी.टी२)	व्याकरणम् अपठित-अवबोधनम् ,संवाद:, चित्रवर्णनम्,प्रत्ययाः,पत्रलेखनम्,संख्यावाचक-शब्दा:- (१-१०० पर्यन्त) , अव्ययपदानि, अनुवादः
वार्षिक-परीक्षा	मणिका– पाठ -१,२,३,४,५, ६,७ , ८,९
	व्याकरणम् -
	1. उच्चारणस्थानानि
	2. स्वरसन्धिः-
	>दीर्घः, गुण, वृद्धिः, यण्, अयादि
	>व्यञ्जनस्सन्धिः - वर्गीप्रथमवर्णस्य तृतीयवर्णे परिवर्तनम् (जश्त्वसन्धिः), 'म स्थाने अनुस्वारः
	>विसर्गसन्धिः – उत्वम् , शत्वम् , सत्वम्
	3. शब्दरूपाणि-
	(पुल्लिङ्गशब्दाः)
	>अजन्ताः - कारान्त - बालकवत् ,इकारान्त-कविवत् , उकारान्तसाधुवत्
	>हलन्तः – भवत्
	(स्त्रीलिङ्गशब्दाः)
	>अजन्ताः - आकारान्त- लतावत्>ईकारान्त - नदीवत्
	(minute for a more marked)

>अजन्ताः – अकारान्त-फलवत
(सर्वनामशब्दा:)
>अस्मद, यष्मद, तत, किम (त्रिष लिङगेष)
4. धातरूपाणि
> (परस्मैपदिनः)- भ. नम. गम. अस. प्रच्छ. क. ज्ञा. क्षाल. नी (पञ्चस लकारेष)
> (आत्मनेपदिनः) सेव. लभ .रुच (लटलकारे लटलकारे च)
5. कारक-उपपद-विभक्तयः
>ाद्वताया – समया/ानकेषा, प्रांत, ावना, पारतः, उमयतः
∼तृतापा - सरु/ समम्/ साथम्, ावना, अलम, रुान ऽचनर्थी कच टा (गच्छ) जा, क्या आलग (गणार्थो)
∼पतुपा - रुष्, ५ा (पष्य्), गमः, कुप्,अराम् (सामव्य) जान्नगी निमा तनिः भी प्रथ
∼पञ्चमा - विना, थाहः, मा, रज् ∖षषी जामी अध, मान, मापन, तथिगान,
> सतमा नालारु, जिवस्, निनुज, जुरारा 6 अपरित-अवबोधनम
7 संवादः /कथापतिः
8पत्रम (औपचारिकम अथवा अनौपचारिकम)
9चित्रवर्णनम् अथवा अनच्छेदलेखनम्
10 संख्या ः – 1-100 (1-4 केवलं प्रथमा विभक्तौ)
11 अव्ययानि
▶ स्थानबोधकानि- अत्र, तत्र, अन्यत्र, सर्वत्र, यत्र, एकत्र, उभयत्र
कालबोधकानि- यदा, तदा, सर्वदा, एकदा, परा, अधना, अद्य, श्वः, ह्यः
प्रश्नबोधकानि- किम. कत्र. कता. कथम. किमर्थम
 अन्यानि- च अपि यदि तर्हि यथा तथा सम्यक एव
12प्रत्ययाः (क्त्वा, तुमुन ल्यप्,,शतृ)
आंतरिक-मूल्यांकनम्
1. बहुविध-मूल्यांकनम् - (छात्राः स्वेच्छया 'विकल्पफलकेन' कमपि गतिविधिमाध्यमं विचित्य प्रकृतौ वृक्षाणां महत्ता इति विषयं प्रतिपादयिष्यन्ति ।)
2. विषयसम्वर्धन-गतिविधिः -

('दिल्ल्यां निरन्तरं वर्धमानस्य प्रदूषणस्य सम्भावित-कारणानि प्रदूषणनिदानोपायाः च' इति विषयमधिकृत्य पी.पी.टी/ दृश्य-श्रव्य-प्रदर्शन/चित्रकला चेत्यादीनां निर्माणं
कृत्वा संस्कृतभाषायां प्रदर्शयिष्यन्ति ।)
3. निवेशसूचिः(Portfolio)/गतिविधय: (छात्राः महाराणा-प्रतापेन सम्बद्धां कामपि कथां चित्रकथा माध्यमेन संस्कृतभाषायां प्रस्तौष्यन्ति ।)
4. परियोजनाधारित-गतिविधिः - ((छात्राः 'संस्कृते सन्निहितं विज्ञानम्' इत्यस्मिन् विषये प्रतिरुपनिर्माणंकृत्वा तस्य विषये संस्कृतभाषायां वदिष्यन्ति।)

COMPUTER SCIENCE

LEARNING OUTCOMES:

- a) Students will be able to understand the basics of webpage designing
- b) Students will be able to use the HTML document structure to create simple webpages.
- c) Students will be able to use the tags and their attributes to create attractive webpages.
- d) Students will be able create hyperlinking in the webpages.
- e) Students will be able to create a website based on a real-life theme eg: Horoscope, School, etc.

Month	No. of	Course Content
	working	
	Days	
April	18	Introduction to HTML
		1. Basic terminologies of HTML
		2. HTML document structure
		3. Steps of creating, saving and viewing the webpage.
		4. Creating a simple webpage using tags such as:
		a. <h1> to <h6> tags</h6></h1>
		b. <body></body>
		c. tag
May	14	Tags and their attributes
		1. Attributes of <body> tag</body>
		2. Align attribute for
		a. <h1> to <h6> tags</h6></h1>
		b. tag
		3. Using tag
		 Using Formatting tags such as <i> <u> <strike></strike></u></i>

July	23	Using text formatting tags1. tag and its attributes: size, color, face2. Formatting tags: <blockquote> , ^{, _{, <pre>3. <hr/> tag and its attributes: Align, width, size, noshade, color4. Introduction to list</pre>}}</blockquote>	
August	23	Introduction to Lists in HTML	
		 What are lists? Types of Lists: Unordered Lists Ordered Lists Definition Lists 	
September	21	Creating Nested Lists in a webpage Inserting images in a webpage using tag.	
October	21	 Creating Tables in a webpage 1. Structure and components of table tag 2. Table attributes- border, bordercolor, Bgcolor, background, cellspacing, cellpadding, width, height 	
November	19	Formatting tables 1. Using attributes of tag Align, valign, Bgcolor, background, rowspan, colspan Introduction to hyperlinking in webpage Types of Hyperlinking 1. External Hyperlinking 2. Internal Hyperlinking	
December	22	Linking two webpages using external hyperlinks	
•	45		

February	23	Revision and Project work
		Creating a complete website on any real-life theme.
March	20	Annual Exams
		ART

LEARNING OBJECTIVES: To enrich students with various aspects of modern as well as traditional art.

VALUES TO BE INCULCATED: To foster the spirit of peace and harmony, celebrate festivals through art, develop love for animals and birds through art and craft.

Month	No. of Working	Course Content
	Days	
April	18	Composition based on nature such as landscapes,
		seascapes, compositions to show seasons, moods of nature etc. from life or from imagination. , Canvas Painting
May	14	Still life with Poster/Water Colours
July	23	Figurative and abstract compositions from imagination, Canvas Painting
August	23	Landscape with mixed media and water/poster Colours, Canvas Painting
September	21	Learn from Masters, Canvas Painting
October	21	Canvas Painting
November	19	Composition on Indian festivals, Compositions based on folk painting style of India.
December	22	Portraits and Canvas Painting
January	15	Poster design on social theme, Canvas Painting
February	23	Folk on National Integration
Mid-Term	20	Assessment: Art File and Canvas
Annual		Assessment: Art File and Canvas
Examination		

<u>MUSIC</u>

LEARNING OBJECTIVES: To enrich students with various aspects of modern as well as traditional music.

VALUES TO BE INCULCATED: To foster the spirit of peace and harmony, celebrate festivals through music, develop love for every one and for our society especially through real music.

Month	No. of	Course Content
	Working Days	
April	18	Satrarambh song, prayers, songs& National Anthem
May	14	Community songs, Tagore song, National Song&Prayers
July	23	Patriotic songs, Prayers, National Anthem, etc.
August	23	Independence day song, Prayers, National anthem, etc.
September	21	Janmashtami song,Gandhi jayanti song, Prayers & Anthem.
October	21	Community songs, patriotic songs, prayers & Anthem.
November	19	Annual day, patriotic songs, prayers & Anthem.
December	22	Christmas song,community songs, prayers & Anthem,
January	15	Basant panchami song,Community songs, patriotic songs, prayers &Anthem
February	23	Community songs, patriotic songs, prayers & Anthem
Mid-Term		Assessment: Participation in various school functions.
Annual Examination		Assessment: Participation in school events

DANCE

Month	No. of Working Days	Course content
April	18	Shiva Gaurishloka chanting.
		Body oriented exercise.
		Revision of classical and folk steps.
May	14	Some contemporary steps.
		Holiday homework (theory)
July	23	Checking of holiday homework (theory).
		Some more contemporary steps.
August	23	A contemporary dance.
September	21	Dance complete.
		Selection of annual day.
October	21	Annual day preparation going on.
November	19	(a) Practice of annual day.
		(b) Theory about annual day.
December	22	(a) A folk dance.
		(b) Show some dance video.
January	15	(a) Folk dance complete.
		(b) Taal putting on hand.
February	23	(a)Revision of all.
		(b)Theory about dance.
Syllabus	Mid Term	Grading to be done on the basis of attendance in class performance, participation in
59110005		school events in Term 1.

Annual Exam	Grading to be done on the basis of attendance in class performance, participation in	
	school events in Term 2.	

INSTRUMENTAL MUSIC

LEARNING OBJECTIVES:-

- **1.** To create proper sense of swarasandlayas through talabadhalankars.
- 2. Tuning and playing musical instruments: Sitar, Sarod, Violin, Flute, Tabla , Guitar, Harmonium, Tanpura.

Month	No. of Working	Course content		
	Days			
April	18	1. Description of basic Indian raga		
		- YAMAN		
		- BHUPALI / Hansdhwani		
May	14	1. Description of basic taal/few kayda a on Tabla		
		- Teen tal		
		Thika and its variatation		
		- Jhaptal		
July	23	Bandish and some taans on raga yaman on teen taal.		
August	23	One orchestra composition.		
September	21	Structure of orchestra and application of different instruments in an orchestra.		
October	21	One project on Indian classical music and viva test.		
		Selection of orchestra composition for annual day and starting practice on that		
		composition.		
November	19	Practice for annual day orchestra.		
December	22	One raga based bhajhan (raghupatiraghav or vaishnavjanato).		
January	15	One patriotic song on different instruments (national anthem or sarejhanha se achha).		

February	23	Practice of solo performance on different instruments.				
Syllabus	Mid Term	Grading to be done on the basis of attendance in class performance, participation in school events in term 1.				
	Annual Exam	Grading to be done on the basis of attendance in class performance, participation in school events in term 2.				

General Knowledge

- GK paper will be held only during Midterm and Final exams.
- The maximum marks for this paper will be of 50 marks.
- The question paper of GK should **not** be in the form of a worksheet.
- It should have the following break-up:

SECTION	A	В	С	D	E
CONTENT	General Awareness	Current Affairs	Mental Aptitude	Comprehension	Life Skills
No. of Questions	10	10	10	10	10
Marks	10	10	10	10	10

• Current Affairs will be covered from the 2 months prior to the GK exam. Midterm (August) and for Final Term (February).