



SUBJECT – ENGLISH

Month	Name of the topic	Aims / Objective	Subject Enrichment	Project
April	<u>READING-</u> Unseen Passage <u>WRITING-</u> Notice Writing Informal Invitation writing <u>GRAMMAR—</u> Editing, Gap Filling, Syntax <u>LITERATURE-</u> L-1 How I Taught My Mother, P-1 Bharat Our Land P-2 Gifts of Grace	To assess the understanding skills. To enable the student to write a short piece of writing. To enable them to use correct use of correct articles, Determiners etc. To enhance students' s understanding of human relationship and importance of education To appreciate and praise motherland To convey that true gifts in life are not material possessions, but qualities like kindness, compassion, gratitude, and inner strength.	Write and recite a patriotic poem OR Share about best gift received yet	
May	<u>READING-</u> Unseen Passage <u>WRITING-</u> E-mail writing, Letter to the Editor <u>GRAMMAR-</u> Tenses <u>LITERATURE-</u> L-2, The Pot Maker L-3 Winds of Change Poem - 3 Canvas of Soil	To test students' ability to grasp the meaning of a given passage properly and answer in own words the questions based on the passage. To enable the student to write a short piece of writing. To write letter in a formal way To enable students to use different time indicating verbs. To read and learn about Indian arts and culture To highlight the idea that change is inevitable, powerful, and necessary for growth. Students will be able to interpret the meaning of the poem and understand the poet's message /theme.	Holiday Homework	
July	<u>READING-</u> Unseen Passage <u>WRITING-</u> Factual Description (Person) <u>GRAMMAR-</u> Modals Auxiliaries <u>LITERATURE-</u> L 4 Vitamin-M Poem - 4 I cannot Remember my Mother	To assess the understanding skills. Writing to test the student's ability to write a short piece of writing to describe a person in their own words Usage of correct modals and auxiliary verbs Make students realize value of money although helping them realize importance of Values v/s materialism To realize importance of mother's and their bond with Children	To observe and write about 2 people they found fascinating/interesting Card Making: Make a Thank you/ Best Mom Card for your mother	
August	<u>READING-</u>	To test students' ability to grasp the meaning	Describe a	



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	Unseen Passage <u>WRITING:</u> Factual Description (Place, Event) <u>GRAMMAR-</u> Omission <u>LITERATURE –</u> L 5 The world of Limitless Possibilities	of a given passage properly and answer in own words the questions based on the passage. To enhance the ability of formal writing to give specific information. within word limit to describe any place or event. To identify and supply missing words To make students aware that human potential is vast and opportunities are endless when we think positively and believe in ourselves.	place you recently visited in about 200 words	
September	<u>READING-</u> Unseen Passage <u>WRITING:</u> Formal Letter Writing (Inquiry, Complaint) <u>GRAMMAR-</u> Reported Speech <u>LITERATURE -</u> L-6, Twin Melodies, Poem-5 Nine Gold Medals	To assess the understanding skills. To enhance the ability of formal writing to give specific information. To enable the students to transform the sentences. Highlight the importance of harmony, unity, and the power of companionship Convey the powerful message that true victory lies in humanity, compassion, and unity rather than individual achievement	ASL	Poster Making Competition
October	<u>READING-</u> Unseen Passage <u>WRITING-</u> Revision (Notice Writing, Informal Invitation writing, Letter writing) <u>GRAMMAR-</u> Revision Reported Speech <u>LITERATURE -</u> Poem-6 A Friend Found in Music	To assess the understanding skills. To enable the student to write a short piece of writing with correct usage of language Students will understand the use of sensory imagery and figurative language in the poem. Highlights the idea that music has the power to heal, connect people, and become a true companion in life.	Make a collage on Indian Musical instrument players	
November	<u>READING-</u> Unseen Passage <u>WRITING-</u> Essay writing <u>GRAMMAR-</u> Revision (Modals, Tenses) <u>LITERATURE -</u> L 7 Carrier of Words	To test students' ability to grasp the meaning of a given passage properly and answer in own words the questions based on the passage. To enable the student to write long composition on the topic with systematic approach To enable students to use different time indicating verbs and expressions. Explain the fact that language and communication are powerful tools that	Motivational speech on the topic of lesson	



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		connect people, preserve ideas, and shape society.		
December	<u>READING-</u> Unseen Passage <u>WRITING-</u> Article writing <u>GRAMMAR-</u> Reported Speech (Procedure writing) <u>LITERATURE -P</u> 7 Words	To assess the understanding skills. To present the ideas in precise and attractive manner with correct language To enable the students to explain the procedure of doing something Convey that words are powerful tools that can influence thoughts, emotions, and relationships.	Holiday Homework	
January	<u>READING-</u> Unseen Passage Practice <u>WRITING-</u> Revision <u>GRAMMAR-</u> Revision <u>LITERATURE – L</u> 8 Follow that Dream P 8 Believe in Yourself	To assess the understanding skills. To master the writing skills of various pieces of writing with precision To practice correct usage of language Emphasizes the idea that one should pursue their dreams with determination, courage, and perseverance despite challenges. To convey the message that self-confidence and faith in one's abilities are the keys to success and personal growth.		
February	<u>READING-</u> Unseen Passage Practice <u>WRITING-</u> Revision <u>GRAMMAR-</u> Revision <u>LITERATURE –</u> Revision	To encourage students to revise and clarify their doubts and to make them confident.		

Exam Syllabus

Unit Test I	Unit Test II	Half Yearly	Unit Test III	Qualifying	Annual
<u>READING –</u> Unseen passage <u>WRITING –</u> Notice, Informal Invitation <u>GRAMMAR –</u> Editing, Gap Filling, Syntax Determiners	<u>READING –</u> Unseen passage <u>WRITING –</u> E-mail writing, Letter to the Editor <u>GRAMMAR</u> Editing, Gap Filling, Syntax Determiners, Tenses, Modal	<u>READING –</u> Unseen passages <u>WRITING –</u> Notice Writing Informal Invitation, E-mail writing, Letter to the Editor, Factual Description (Person, place)	<u>READING –</u> Unseen passage <u>WRITING –</u> Factual Description (Person, place, event), Formal Letter Writing (Inquiry, Complaint) <u>GRAMMAR</u>	<u>READING –</u> Unseen passage <u>WRITING –</u> Notice Writing Informal Invitation, E-mail writing, Letter to the Editor, Factual Description (Person, place)	<u>READING –</u> Unseen passages <u>WRITING –</u> Notice Writing Informal Invitation, E-mail writing, Letter to the Editor, Factual Description (Person, place)



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<u>LITERATURE</u> L-1, How I Taught my Grandmother, Poem – 1, Bharat Our Land, Poem -2 Gifts of Grace	Auxiliaries <u>LITERATURE</u> L-2, The Pot Maker, L-3 Winds of Change, Poem 3, Canvas of Soil	<u>GRAMMAR –</u> <u>Editing, Gap</u> Filling, Omission Syntax Determiners, Tenses, Modal Auxiliaries, <u>LITERATURE</u> L-1- How I Taught my Grandmother L-2The Pot Maker L 3 Winds of Change L 4 Vitamin-M L 5 The world of Limitless Possibilities Poem – Poem – 1, Bharat Our Land, Poem -2 Gifts of Grace Poem 3, Canvas of Soil Poem 4 I cannot Remember my Mother	Editing, Gap Filling, Syntax Determiners, Tenses, Modal Auxiliaries, Reported speech <u>LITERATURE</u> L-6, Twin Melodies, Poem-5 Nine Gold Medals, Poem-6 A Friend Found in Music	Article writing, Essay Writing <u>GRAMMAR –</u> Editing, Gap Filling, Syntax Determiners, Tenses, Modal Auxiliaries, Reported speech <u>LITERATURE –</u> L-1- How I Taught my Grandmother L- 2The Pot Maker L 3 Winds of Change L 4 Vitamin M L 5 The world of Limitless Possibilities – L-6, Twin Melodies L 7 Carrier of Words Poem – Poem – 1, Bharat Our Land, Poem -2 Gifts of Grace Poem 3, Canvas of Soil Poem 4 I cannot Remember my Mother Poem-5 Nine Gold Medals, Poem-6 A Friend Found in Music P 7 Words	Article writing, Essay Writing <u>GRAMMAR –</u> Editing, Gap Filling, Syntax Determiners, Tenses, Modal Auxiliaries, Reported speech <u>LITERATURE –</u> L-1- How I Taught my Grandmother L-2The Pot Maker L 3 Winds of Change L 4 Vitamin-M L 5 The world of Limitless Possibilities L-6, Twin Melodies L 7 Carrier of Words L 8 Follow that Dream Poem – Poem – 1, Bharat Our Land, Poem -2 Gifts of Grace Poem 3, Canvas of Soil Poem 4 I cannot Remember my Mother Poem-5 Nine Gold Medals, Poem-6 A Friend Found in Music P 7 Words; P 8 Believe in Yourself
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Month	Name of the topic	Aims / Objective	Subject Enrichment
अप्रैल	व्याकरण - उपसर्ग ,प्रत्यय, पाठ्य पुस्तक 'गंगा' -गद्य खंड -पाठ - 1 दो बैलों की कथा , पाठ 6 - रीड की हड्डी लेखन कौशल -अपठित गद्यांश, पद्यांश अनुच्छेद लेखन ,पत्र लेखन (औपचारिक / अनौपचारिक) संवाद लेखन	भाषा का शुद्ध व्याकरणिक प्रयोग सिखाना । प्रेमचंद की रचनाओं का परिचय तथा पशुओं के प्रति संवेदना की भावना विकसित करना । पाठ का परिचय देते हुए सामाजिक कुप्रथाओं के प्रति जाग्रत करना । लेखन कौशल क्षमता विकसित करना । अध्ययनशीलता ,एकाग्रता , अर्थग्रहण क्षमता का विकास	
मई	व्याकरण - अर्थ की दृष्टि से वाक्य भेद, अलंकार (अनुप्रास यमक श्लेष), पाठ्य- पुस्तक (गंगा), गद्य - पाठ -2 क्या लिखूं, लेखन कौशल - संवाद लेखन, पत्र लेखन (औपचारिक / अनौपचारिक) पुनरावृत्ति हेतु।	सही वाक्य रचना , कल्पनाशीलता को विकसित करना काव्य सौंदर्य में अलंकारों का महत्व समझाना श्रेष्ठ निबंध लेखन के लिए सामग्री, शैली और अभ्यास की आवश्यकता को समझाते हुए निबंध लेखन के मुख्य पहलुओं पर प्रकाश डालना विचार अभिव्यक्ति , वाक्य निर्माण कौशल को विकसित करना ।	छात्रों द्वारा ग्रीष्मकालीन अवकाश के अनुभवों की अभिव्यक्ति एक अनुच्छेद रूप में ।
जुलाई	व्याकरण - संज्ञा, अलंकार (अनुप्रास, यमक, श्लेष) पुनरावृत्ति कार्य साहित्य - काव्य खंड - पाठ -8 'पद' पाठ 9- राम- लक्ष्मण- परशुराम संवाद गद्य खंड- पाठ - 3 संवादहीन लेखन कौशल -अपठित गद्यांश ,पद्यांश, अनुच्छेद,संवाद ,पत्र लेखन (अनौपचारिक)	काव्य सौंदर्य का बोध कराना। ईश्वर के प्रति सच्चे समर्पण की प्रेरणा देना भक्तिकालीन कवियों का ज्ञान कारना । तथा पदों का गीतात्मक शैली में गायन कराना । शक्ति के साथ विनम्रता के महत्व को समझना। कहानी के माध्यम से मानवीय संवेदना और संबंधों की अहमियत को समझना। मनुष्य और पशु पक्षियों के संबंधों को भी मार्मिक ढंग से समझाना। शब्दों की विचारबद्ध अभिव्यक्ति करना सिखाना तथा लेखन क्षमता का विकास करना । अध्ययनशीलता ,एकाग्रता , अर्थग्रहण क्षमता का विकास करना ।	भक्तिकालीन कवियों की रचनाओं का सचित्र संकलन ए 4 शीट पर ।
अगस्त	व्याकरण - वाक्य भेद ,अलंकार ,उपसर्ग ,प्रत्यय, अलंकार, सर्वनाम साहित्य - गद्य खंड - पाठ -4 ऐसी भी बातें होती हैं पद्य खंड-पाठ - 10 भारति, जय, विजय करें लेखन कौशल - अपठित गद्यांश, पद्यांश, संवाद, पत्र लेखन (अनौपचारिक), सूचना लेखन, अनुच्छेद लेखन पुनरावृत्ति कार्य (अर्द्धवार्षिक परीक्षा) हेतु ।	पुनरावृत्ति कार्य तथा पूर्ववर्ती ज्ञान को परखना भारतीय संगीत की एक अमर पहचान बन चुकीं स्वर कोकिला लता मंगेशकर के जीवन और अनुभवों से अवगत कराना। कविता के माध्यम से छात्रों में देशभक्ति की भावना का संचार करना, भारत माता के जीवंत दिव्य और पवित्र स्वरूप से अवगत कराना। विचार अभिव्यक्ति , वाक्य निर्माण कौशल को विकसित करना । पूर्ववर्ती ज्ञान को परखना ।	भारतीय संगीतशास्त्र में राग की उत्पत्ति पर एक चित्र कथा या पोस्टर बनाइए। श्रवण/वाचन कौशल
सितम्बर	व्याकरण - पुनरावृत्ति कार्य	भाषा का शुद्ध व्याकरणिक प्रयोग सिखाना।	
अक्टूबर	साहित्य - गद्य खंड - आखिरी	पाठ के माध्यम से प्राकृतिक सुंदरता, साहसिक अनुभव	

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	चट्टान तक पाठ -7 में और मेरा देश लेखन कौशल - अपठित गद्यांश, पद्यांश, संवाद लेखन, पत्र लेखन (अनौपचारिक) व्याकरण - अलंकार (पुनरावृत्ति), विशेषण	और मानवीय दृष्टिकोण को समझाना है निबंध हम सबको संदेश देता है कि अब हम अपने हितों और देश हितों को अलग-अलग नहीं समझ सकते, यह एक दूसरे के पूरक हैं। शब्दों की विचारबद्ध अभिव्यक्ति करना सिखाना तथा लेखन क्षमता का विकास करना। भाषा का शुद्ध व्याकरणिक प्रयोग सिखाना।	
नवम्बर	साहित्य - पद्य खंड - पाठ 11 - झांसी की रानी पद्य खंड- पाठ -12 घर की याद लेखन कौशल - अपठित गद्यांश, पद्यांश, सूचना, संवाद, पत्र लेखन (अनौपचारिक) व्याकरण - पुनरावृत्ति कार्य, क्रिया पाठ्य पुस्तक - गंगा - गद्य - खंड	कविता वीरता उत्साह और देशभक्ति की भावना से ओत प्रोत है और देश के प्रति गर्व और स्वतंत्रता के लिए समर्पण की भावना जागती है। इस कविता का उद्देश्य परिवार के संबंधों, बचपन की यादों और प्राकृतिक सौंदर्य के माध्यम से मानवीय संवेदनाओं को समझाना है विचार अभिव्यक्ति, वाक्य निर्माण कौशल को विकसित करना। अध्ययनशीलता, एकाग्रता, अर्थग्रहण क्षमता का विकास करना भाषा का शुद्ध व्याकरणिक प्रयोग सिखाना। पुनरावृत्ति कार्य तथा पूर्ववर्ती ज्ञान को परखना	सन 1857 के विद्रोह में भाग लेने वाले स्वतंत्रता सेनानियों पर कॉलाज तैयार कीजिए 'मेरा बचपन' विषय पर स्वरचित कविता।
दिसम्बर	पद्य - खंड लेखन कौशल - सूचना लेखन, संवाद लेखन, पत्र लेखन (अनौपचारिक) अनुच्छेद लेखन, वाचन कौशल - परीक्षा हेतु पुनरावृत्ति अभ्यास पत्र हल कराना वार्षिक परीक्षा हेतु पुनरावृत्ति कार्य	पुनरावृत्ति कार्य तथा पूर्ववर्ती ज्ञान को परखना विचार अभिव्यक्ति, वाक्य निर्माण कौशल को विकसित करना। पूर्ववर्ती ज्ञान को परखना। वार्षिक परीक्षा हेतु पुनरावृत्ति कार्य	श्रवण/वाचन कौशल
जनवरी	लेखन कौशल (पुनरावृत्ति कार्य) पुनरावृत्ति हेतु अभ्यास- पत्र		
फरवरी	पुनरावृत्ति कार्य एवं सैंपल पेपर		

Exam Syllabus

Unit Test I	Unit Test II	Half Yearly	Unit Test III	Qualifying	Annual
अपठित गद्यांश, पत्र, अनुच्छेद, संवाद लेखन, उपसर्ग, प्रत्यय, पाठ्य पुस्तक (गंगा) गद्य खंड 1 - दो बैलों की कथा, पाठ -6 रीढ़ की हड्डी	अपठित गद्यांश, पद्यांश, पत्र (अनौपचारिक), अनुच्छेद लेखन। वाक्य- भेद (अर्थ के आधार पर), संज्ञा, अलंकार (अनुप्रास, यमक, श्लेष) (गंगा) गद्य खंड - पाठ-2 क्या लिखूं? पाठ -3 संवादहीन पद्य खंड - पाठ -8 पद, पाठ-9 राम- लक्ष्मण- परशुराम संवाद	अपठित पद्यांश, गद्यांश, पत्र (अनौपचारिक), अनुच्छेद, सूचना लेखन, संवाद, शब्द निर्माण (उपसर्ग, प्रत्यय) वाक्य भेद (अर्थ के आधार पर), अलंकार (अनुप्रास, यमक, श्लेष), संज्ञा, सर्वनाम, पाठ्य पुस्तक -(गंगा) -पाठ 1 दो बैलों की कथा,	अपठित गद्यांश/ पद्यांश, अनुच्छेद लेखन, पत्र लेखन, संवाद, उपसर्ग, प्रत्यय, अर्थ के आधार पर वाक्य भेद, अलंकार (अनुप्रास, यमक, श्लेष), विशेषण पाठ्य पुस्तक - 'गंगा' - गद्य खंड - पाठ-5 आखिरी चट्टान तक, पाठ- 7 में और मेरा देश काव्य खंड - पाठ- 11 झांसी की रानी, पाठ -	अपठित गद्यांश, पद्यांश पत्र, अनुच्छेद, संवाद एवं सूचना लेखन, उपसर्ग, प्रत्यय, वाक्य भेद (अर्थ के आधार पर) लंकार (अनुप्रास, यमक, श्लेष), क्रिया, संज्ञा, सर्वनाम, विशेषण (गंगा) गद्य खंड - पाठ-2 क्या लिखूं?, पाठ- 3 संवादहीन, पाठ-4 ऐसी भी बातें होती हैं, पाठ-5 आखिरी चट्टान तक पाठ -6 रीढ़ की हड्डी	अपठित गद्यांश, पद्यांश पत्र, अनुच्छेद, संवाद एवं सूचना लेखन, उपसर्ग, प्रत्यय, वाक्य भेद (अर्थ के आधार पर), अलंकार (अनुप्रास, यमक, श्लेष), संज्ञा, सर्वनाम, विशेषण , क्रिया, पाठ्य पुस्तक (गंगा) गद्य खंड- पाठ -1 दो बैलों की कथा, पाठ-2 क्या लिखूं?, पाठ- 3 संवादहीन, पाठ-4 ऐसी भी बातें होती हैं, पाठ-5 आखिरी चट्टान तक

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		पाठ -2 क्या लखूं, पाठ - 3 संवादहीन, पाठ-4 ऐसी भी बातें होती हैं काव्य खंड - पाठ - 8 पद, पाठ -9 राम- लक्ष्मण -परशुराम संवाद, पाठ- 10 भारति, जय, विजय करें	12 घर की याद	पाठ-7 मैं और मेरा देश काव्य खंड - पाठ -9 राम - लक्ष्मण- परशुराम संवाद पाठ-10 भारति, जय, विजय करें, पाठ- 11 झांसी की रानी, पाठ- 12 घर की याद	पाठ -6 रीढ़ की हड्डी पाठ-7 मैं और मेरा देश काव्य खंड - पाठ -8 पद पाठ -9 राम -लक्ष्मण- परशुराम संवाद पाठ-10 भारति, जय, विजय करें, पाठ- 11 झांसी की रानी, पाठ- 12 घर की याद
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Month	Name of the Chapter	Objective/Aim	Subject Enrichment Activity	Project
April	CH-5 Exploring mixtures and their separation	Students will be able to: • Differentiate between homogeneous and heterogeneous mixtures on the basis of their properties • Classify mixtures as solutions, suspensions, or colloids based on their properties • Define and calculate the concentration of solutions using mass by mass percentage, mass by volume percentage, volume by volume percentage • Analyse graphs of solubility and explain how the solubility of substances changes with temperature	Perform an activity to demonstrate the phenomenon of diffusion. Perform the various reactions and classify them as physical or chemical changes. To prepare a mixture and compound using iron fillings and Sulphur powder and distinguish between these on the basis of appearance, behavior towards magnet, behavior towards carbon disulphide as a solvent and effect of heat.	Compare the mileage of two four wheelers
	CH-2 Cell: The Building Block of life CH-4 Describing Motion Around Us	Students will be able to: • Differentiate between plant and animal cell, prokaryote and eukaryote • Describe the structural and functional features of cells • Explain the role of cells in the structure and functions of organisms • Differentiate between diffusion and osmosis; The students will be able to know the types of motion, distance, displacement, average speed, average velocity, average acceleration, equation of motion, graphical analysis.	Put a mung bean seed in water for few hours. Observe the onion root tip cell under the microscope. Activity- To find the distance and displacement covered by an object. ii. To find the magnitude of average acceleration for a car.	
May	CH-2 Cell: The Building Block of life(cont.). CH-5 Exploring mixtures and their separation	Students will be able to: • Explain activities inside the cell and its interactions with the environment. • Explain the role of cell division mitosis and meiosis in creating similarities and variations • Identify and describe the role of biomolecules in the structure and function of cell Students will be able to: • Demonstrate separation techniques, such as crystallisation, distillation,	To prepare temporary mount of onion peel and human Cheek cell.	Create a model on any type of synthetic cell using low-cost eco-friendly material. Construct a project on benign and malignant tumours.

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	CH-6 How Forces Affect Motion	and function of each) The student will be able to know about the force (balanced and unbalanced forces), the force of friction and motion, Newton's laws of motion and its applications, and inertia.	Exp.- To verify the Newtons third law of motion. Activity- (i) Balance and unbalanced force. (ii) To demonstrate friction on an object. (spring balance activity)	Learn five steps and identify which joints are involved in every step. Give a pictorial presentation on the same.
August	CH-3 Tissue in action (cont.) CH-6 How Forces Affect Motion (contd.) Revision	Students will able to understand the concept of • Animal tissues • Overview (epithelial, connective, muscular and nervous tissues — types, structure and function of each) • Different types of joints • Establish the correlation between different tissues for fitness, for example, role of muscles, cartilage and bones in facilitating movement The student will be able to know about the action and reaction, forces acting on a system of objects.	Identification of animal tissue by prepared slides and draw their diagram.	
September	Half Yearly Ch-9 Atomic foundations of matter	Students will be able to: • Differentiate between chemical species based on their properties or characteristics, such as atoms and molecules, elements and compounds, ionic and covalent compounds, cations and anions, formula unit mass and molecular mass • Plan and demonstrate activities to observe and verify the law of conservation of mass • Explain the Dalton's atomic theory, the law of conservation of mass, the law of constant proportions, and formation of ionic and covalent compound. • Calculate the charge on an ion, valency from the atomic number, the molecular and formula unit mass • Use scientific conventions, symbols, and valency to write the chemical formulae of simple compounds • Display awareness about the	Compare atoms and ions of any three elements. Show the number of electrons before and after ion formation using bar graphs.	



	CH-7 Work, Energy and Simple Machines	scientific discoveries, such as the contributions of Antoine Lavoisier, Joseph Proust, and John Dalton Students will be able to know about the work done by a constant force, zero, negative and positive work done.		
October	CH-12 Patterns in life: Diversity and classification. CH-7 Work, Energy and Simple Machines (contd.)	Students will be able to: • Describe the significance and rules of binomial nomenclature • Apply binomial nomenclature on some common organisms in their surroundings. • Analyse the interactions between members of different groups of organisms, such as lichens • Organisation and ecological role Students will be able to know about The Work-energy theorem, forms of energy, mechanical energy, kinetic energy, potential energy and gravitational potential energy, conservation of mechanical energy	Activity- i. Ball and sand activity to understand the concept of gravitational potential energy. ii. To show the conservation of mechanical energy using simple pendulum.	Study the diversity of farm animals used in different types of farming practices in different parts of the country Project Models based on Archimedes' principle.
November	CH-12 Patterns in life: Diversity and classification. (cont.) Ch-13 Earth as a system: Energy, matter and life CH-7 Work, Energy and Simple Machines (contd.)	Students will be able to: • Discuss ecological role of diverse organisms • Distinguish organisms based on certain characteristics, such as number of cells present, cellular organisation and mode of nutrition Classify various organisms in groups, such as five kingdoms, on the basis of their cellular Students will be able to understand the concept of global warming, the importance of forest. Students will be able to understand the impact of melting glaciers and polar ice caps, impact of increasing CO ₂ level on ocean plankton. Students will be able to understand the concept of power, simple machines, pulley, lever and inclined plane.	Activity- i. Measuring the force required to pull up a cart along an inclined plane. ii. Balancing cup activity. iii. Using different object to show the concept of lever (fulcrum, load, effort)	Investigate extinct species and analyses how its disappearance impacted the organism dependent on it and how this affected the ecological balance in the ecosystem.
December	CH-11 Reproduction: How life continues	Students will be able to • Analyse the interactions between members of different groups of organisms, such as plants and		Read about seed village programme (beej gram)



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	CH-10 Sound Waves: Characteristics and Applications	pollinators • Compare asexual and sexual reproduction • Describe male and female reproductive organs in plants and animals • Differentiate between ovule and seed; ovary and fruit • Explain pollination and fertilisation • Explain how variations are introduced by sexual reproduction • Illustrate the structure of male and female reproductive units or systems in plants and animals • Recognise the significance of contraceptive devices for population control and health including reproductive health • Recognise the importance of improvements in medical field for assisted reproductive technologies. The student will be able to know about the production of sound, Propagation of sound, sound waves, energy of sound waves, graphical representation of sound waves.	Exp.- To determine the speed of pulse propagated through a stretched string/ sling (helical spring). Act. - Tuning fork activity.	yojana) run by the government of India, Why it is important to save indigenous seeds? Prepare a report on IVF, its uses and drawbacks. Activity- To calculate the electricity bill of a house
January	CH-10 Sound Waves: Characteristics and Applications (Cont.) Ch-1 Exploration: Entering the world of secondary science	The student will be able to know about the characteristics of sound wave, human perception of sound, reflection of sound, echo, reverberation, ultrasonic and infrasonic waves, echolocation. Students will be able to: • Understand "How" Science Works • Develop Analytical Skills • Emphasize Evidence-Based Thinking • Develop Scientific Language • Apply Science to Nature and Technology	Exp.- To verify the laws of reflection of sound.	
February	Revision			

Exam Syllabus

Unit Test I	Unit Test II	Half Yearly	Unit Test III	Qualifying	Annual
CH –5 Exploring	CH –5 Exploring mixtures and their	CH- 2,3,4,5,6,8	Ch-9 Atomic foundations and	CH –3,4, 6, 7,8,9,11, 12,13,	Complete Syllabus

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mixtures and their separation (excluding separation techniques) CH-2 Cell: The building block of life (except cell organelles). CH-4 Describing Motion Around Us	separation (including separation techniques) CH-2 Cell: The building block of life (Only cell organelles) CH-3 Tissue in Action (Plant Tissue only) CH-6 How Forces Affect Motion		matter CH-7 Work, Energy and Simple Machines CH-12 Patterns in life: Diversity and classification.		
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SUBJECT – MATHS

Month	Name of Chapter	Objective / Aim	Enrichment Activity
April	Ch-1: Orienting yourself: The use of Coordinates	Students will be able to define the position of some object in 2D Plane and can calculate distance/perimeter/area of figure obtained by joining different positions/objects, and to find the mid-point between two points, checking points are collinear or not.	Understanding concept of coordinate geometry using XY axes kit.
	Ch-3: World of Numbers	To learn about geometrical importance of rational and Irrational numbers, type of decimal numbers, proof of irrationality of $\sqrt{2}$, $\sqrt{3}$, Density of rational numbers,	Square root spiral
May	Ch-2: Introduction to Linear Polynomial	To learn about Algebraic expressions, definition of a polynomial, Degree of a polynomial, Introduction to linear polynomials and applications, Exploring linear patterns, Modelling linear growth and linear decay, Linear relationships, Visualizing linear relationships, Slope and y-intercept of a line $y = ax + b$ and real-life problems of algebraic expression.	
July	Ch-4: Exploring Algebraic Identities	To learn about Algebraic Identities, Visualizing Identities Using Geometrical Models, Factorization of Algebraic Expressions, Factorization of Quadratic Expressions, Simplification Rational Expressions.	Verify that angles subtended by the same arc at the center are the double the angle at the remaining part of the circle, and angles in the same segment are equal.
	Ch-5: I'm up and down, round and round	To understand the concept of circle and its related terms, angle subtended by an arc and chords, mid-point and perpendicular bisector of chord. Introduction of Cyclicity of points.	
August	Ch-5: I'm up and down, round and round (continue...)	continue.....	To find the relationship among the volumes of a right circular cone, a hemisphere and a right circular cylinder of equal radii and equal heights. To obtain the formula for the surface area of a sphere.
	Ch-6: Measuring Space: Perimeter and Area	To learn about Perimeter of Plane Shapes, Perimeter of a Circle: Introduction to π and its Irrationality, Length of an Arc, Area of Plane Shapes: Rectangles Parallelograms, Triangles Heron's Formula, Squaring a Rectangle: Proof from Baudhayana's Sulbasūtras, Area of a Circle (Derivation), Area of a Sector of a Circle, Brahmagupta's Formula for the Area of a Cyclic Quadrilateral, Heron's Formula as a Special Case of Brahmagupta's Formula	
	Revision	Half – yearly Exam	
September	Ch-7: The Mathematics of maybe: Introduction to Probability	To introduce Concept of Randomness, Probability Scale (0 to 1), Empirical Probability from Data, Theoretical Probability of an Event and its applications, Representation and Computing Probabilities Using Tree Diagrams and Tables, Computational Thinking: Pattern Recognition and Simulation in Probability	To find experimental probability of each outcome of a die when it is thrown a large number of times.



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October	Ch-8: Predicting what comes next: Exploring Sequences and Progression Ch-10; How Quantities Combine: Understanding Data	Introduction to Sequences, Explicit (General) Rule of a Sequence, Recursive Rule of a Sequence, Arithmetic Progressions (AP): nth Term, Visualization, Practical Applications and Sum of the first n Natural Numbers, Geometric Progressions (GP): nth Term, Visualization, Practical Applications. Develop statistical thinking, organize and interpret data sets, compare representative values, and read graphical representations.	To find the sum of first 'n' natural numbers by graphical method.
November	Ch-12; Quadrilaterals Ch-13; Two variables, one line	Classify four-sided figures, analyze parallelograms, apply relationships among sides, angles, and diagonals, and use mid-point theorems in geometric proofs. Connect linear equations in two variables to their graphical representations on a coordinate plane and interpret solutions geometrically.	Mind – Map of Quadrilaterals
December	Ch-13; Two variables, one line (Continue...) Ch-14; Math of Space: Surface Area and Volume	Apply mensuration concepts to calculate surface areas and volumes of three-dimensional solids.	To find the relationship among the volumes of a right circular cone, a hemisphere and a right circular cylinder of equal radii and equal heights.
January	Ch-14; Math of Space: Surface Area and Volume (Continue) Ch-9; Propositions and their Converses	Understand mathematical statements as true or false, analyze logical structures, and distinguish original conditional statements from their converses using examples and counter examples.	
February	Ch-11; The World of Algorithms	Build computational thinking by breaking down complex problems into clear, sequential, logical steps and recognizing repeated procedures.	

Exam Syllabus

Unit Test I	Unit Test II	Half Yearly	Unit Test III	Qualifying	Annual
Ch. 1, 3	Ch. 2, 4	Ch. 1, 2, 3, 4, 5, 6	Ch. 7, 8	PART – I (Ch-1 to 8) PART – II (Ch-10, 12, 13)	PART – I PART – II (Complete Syllabus)



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SUBJECT – ARTIFICIAL INTELLIGENCE

Month	Unit Name	Learning Outcomes	Practical
April	Part A: Unit I: Communication Skills I	Students will be able to understand: • Methods of communication • Communication Cycle • Perspectives in communication • Basic writing skills	
May	Part B: Unit I: AI Reflection, Project Cycle, Ethics	Students will be able to understand: • To identify and appreciate Artificial Intelligence and describe its applications in daily life. • To recognize, engage and relate with the three realms of AI: Computer Vision, Data Statistics and Natural Language Processing. • Identify the AI Project Cycle framework. • Learn problem scoping and ways to set goals for an AI project. • Identify stakeholders involved in the problem scoped. Brainstorm on the ethical issues involved around the problem selected. • Understand the iterative nature of problem scoping for in the AI project cycle. Foresee the kind of data required and the kind of analysis to be done. • Identify data requirements and find reliable sources to obtain relevant data.	The AI Game Learners to participate in three games based on different AI domains. – Game 1: Rock, Paper and Scissors (based on data) https://next.rockpaperscissors.ai/ – Game 2: Semantris (based on Natural Language Processing - NLP) https://research.google.com/semantris/ – Game 3: Quick Draw (based on Computer Vision - CV) https://quickdraw.withgoogle.com/
July	Part B: Unit I: AI Reflection, Project Cycle, Ethics Part A: Unit II: Self – Management Skills I	Students will be able to understand: • To understand the purpose of Data Visualisation • Use various types of graphs to visualise acquired data. • Understand modeling (Rule based & Learning-based) • Understand various evaluation techniques. • Challenge students to think about how they can apply their knowledge of deployment in future AI projects and encourage them to continue exploring different deployment methods. • To understand and reflect on the ethical issues around AI. • To gain awareness around AI bias and AI access. • To let the students analyse the advantages and disadvantages of Artificial Intelligence. Students will be able to understand: • Importance of self – management • Building self - confidence	Activity: • Brainstorm around the theme provided and set a goal for the AI project. • Discuss various topics within the given theme and select one. • Fill in the 4Ws problem canvas and a problem statement to learn more about the problem identified in the community/ society • List down/ Draw a mind map of problems related to the selected topic and choose one problem to be the goal for the project.



August	Part B: Unit II: Data Literacy Part A: Unit III: ICT Skills - I	Students will be able to understand: Define data literacy and recognize its importance Understand how data literacy enables informed decision making and critical thinking • Apply the Data Literacy Process Framework to analyze and interpret data effectively • Differentiate between Data Privacy and Security • Identify potential risks associated with data breaches and unauthorized access. • Learn measures to protect data privacy and enhance data security • Determine the best methods to acquire data. • Classify different types of data and enlist different methodologies to acquire it. • Define and describe data interpretation. • Enlist and explain the different methods of data interpretation. • Recognize the types of data interpretation. • Realize the importance of data interpretation • Recognize the importance of data visualization • Discover different methods of data visualization Students will be able to understand: • Introduction to ICT • Components of a computer system • Peripheral devices • Basic computer skills	Activities: • Trend analysis • Visualize and Interpret Data
September	Revision and Half Yearly Examination		
October	Part B: Unit III: Math for AI (Statistics & Probability) Part A: Unit IV: Entrepreneurial Skills – I	Students will be able to understand: • Analyzing the data in the form of numbers/images and find the relation/pattern between the them. • Use of Math in AI. • Number Patterns Picture Analogy • Understand the concept of Statistics in real life. • Application in various real life scenarios • Understand the concept of Probability in real life and explore various types of events. • Application in various real life scenarios Students will be able to understand: • Types of business activities • Characteristics of Entrepreneurship	Activity: • observe the number pattern and find the missing number. • To find connections between sets of images and use that to solve problems.
November	Part B: Unit IV: Introduction to Generative AI Part A: Unit	• Students will be able to define Generative AI & classify different kinds. • Students will be able to explain how Generative AI works and recognize how it learns. • Applying Generative AI tools to create content. • Understanding the ethical considerations of using Generative AI. Students will be able to understand:	Activity: Guess the Real Image vs. the AI-generated image.



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	V: Green Skills – I	- Environment protection and conservation - Importance of green economy	
December	Part B: Unit V: Introduction to Python	Learn basic programming skills through gamified platforms. Acquire introductory Python programming skills in a very user-friendly format	- To print personal information like Name, Father's Name, Class, School Name. - To find square of number 7 - To find the sum of two numbers 15 and 20. - To convert length given in kilometers into meters. - To print the table of 5 up to five terms. - To calculate Simple Interest if the principle_amount = 2000 rate_of_interest = 4.5 time = 10 - To calculate Area and Perimeter of a rectangle - To calculate Area of a triangle with Base and Height - To calculating average marks of 3 subjects - To calculate discounted amount with discount % - To calculate Surface Area and Volume of a Cuboid
January	Revision and Qualifying Examination.		
February	Revision and Annual Examination		

Exam Syllabus

Unit Test I	Unit Test II	Half Yearly	Unit Test III	Qualifying	Annual
Part A: Unit I	Part A: Unit II Part B: Unit I	Part A: Unit I, II Part B: Unit I, II	Part A: Unit III Part B: Unit III	Part A: Unit I to IV Part B: Unit I to V	Complete Syllabus



SUBJECT – SPORTS

Month	Name of the skill	Learning objective	Practical / Activities
April	Understanding physical education & basic fitness, Motor skills Development Physical education components	physical education meaning & importance. Baseline fitness levels identified	Running, Stretching, push-ups, situps. Jumping Throwing Fitness tests: flexibility, endurance, strength, Speed
May	Science & Sports Body system awareness, First aid Yoga and Mindfulness Intro	Major system knowledge muscles, bones Basic mindfulness and yoga understanding	Bandaging Practice, R.I.C.E method Tadasana, Vrikshasana, Breathing Exercise, Flexibility Drills.
July	Fitness Development, Nutrition Team Sports Introduction	Balanced Diet and Hydration Enhanced motor and coordination skills Rules and basic play strategies	Diet chart activity Running, jumping, throwing drills Football, volleyball, cricket basics
August	Skill Olympics & Values Leadership, Sportsmanship and Fair Play	Olympic Games values & history Build confidence to lead and guide others Understanding fair play and ethics	Athletics, Badminton Discussion, role plays, and examples of fair play
September	Sports Participation Inter-Class Competitions	Team Spirit Build confidence and Competitive spirit and application of skills	Group games, Volleyball, Football House-wise or class-wise matches
October	Game skill, Inclusive Sports	Advanced skill development Strategic thinking in games	Tennis and badminton basics Drills on positioning, spacing, tactics,
November	Indigenous Sports, Student-led Activities	Build leadership and peer learning skills	Students lead warm-ups and drills Kho-Kho,
December	School Sports Team Strategy & fair play	Organizational skills and participation	Full-day event with multiple sports, Matches, Team formation, game strategies practice.
January	Skills Review Fitness Evaluation	Skill refinement and consistency Progress tracking and fitness improvement	Drills and game simulations Repeat Term 1 fitness assessments
February	Sports Festival Reflection and Strategy	Planning and executing events Critical reflection and goal setting	Mini-tournaments and exhibitions Feedback sessions, planning meetings



SUBJECT – ASTRONOMY

Month	Content	Objective/Aim	Subject Activity	Enrichment	Project
April	“Acceleration due to gravity” & “Density of all planet and Sun”	*Students would be able to find the mass and radius of all planet of our solar system. *Students would be able to understand the relation between acceleration and density	1- Calculate the Acceleration due to gravity on surface of every planet of our solar system. 2- Calculate the density of all planet of our solar system.		Solar system Flipbook
May	“Knowledge with Telescope”	Students would be able to find the components and workings of astronomical telescope.	Working of astronomical telescope.		
July	“Knowing about Sun” & “Attraction force between celestial bodies”	*Students would be able to understand basic knowledge about Sun. *Students would be able to find forces between astronomical things.	1- Make a note based on the characteristics of “Sun” 2- Calculate the attraction force between Sun and all planet of our solar system.		3-D structure of sun
August	“Satellite: Natural and Artificial satellite”	* Students would be able to find orbital velocity, periodic time radius of orbit of natural and artificial satellite	1- Make a Note based on the uses of Artificial satellite.(Some more about artificial satellite)		
September	Half Yearly Examination “Launching of satellite”	*Students would be able to learn about polar satellites and geostationary satellite.	1- Make a research based on the “How a satellite launch”.		
October	“Know about Galaxies”	Students would enhance the knowledge about nearby galaxies of our solar system.	1-Write the name of galaxies and their position and distance on A4 sheet. 2- Write 10 main facts about ANDROMEDA GALAXY .		
November	“Oort Cloud – Universe today”	Students would be able to know about oort cloud.	1- Prepare a note on the oort cloud. 2- Oort cloud! Science quizzes		
December	“Kepler’s planetary law”	Students would be understood the laws on which celestial object revolve.	1- Make a chart based on the kepler’s planetary motion. 2- By using Newton’s laws of motion find the conservation law of angular momentum.		
January	“Moon is the gateway of stars” “Planets!”	Students would be able to understand the surface properties of moon and they	1- Do a research on the surface properties of moon.		Make a project (ppt or on A4 sheet) based

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	Modern Astronomy”	would be able to find the effect of attraction force of moon on the earth.	2- Write a short note of 10 new exoplanet in universe & 10 most incredible recent space discoveries.	on the presence of fuel on the moon.
February	Revision			

Exam Syllabus

Half Yearly	Annual
Multiple choice questions based on activities conducted from April to August	Multiple choice questions based on activities conducted from September to January



SUBJECT – ROBOTICS

Month	Name of the Chapter	Objective/Aim
April	Introduction to Arduino, Electronic Dice using Arduino	• Arduino Board features and working, Connection of LED in Breadboard, Programming of LED blinking
	Digital Inputs	• Use of Push Buttons with digital inputs to turn on and off LED
	RGB led fader	• Controlling the brightness of RGB led with Arduino, Programming of LED blinking., Displaying different colours of RGB led
May	Line follower robot	• Learning of working principle of IR sensor Learning of how television , air condition and other electrical equipment turn on and off with remote
	Detecting Obstacles and Warning	• Ultrasonic sensor working with 2 arduino Boards, and Buzzer, Detecting objects and warning of obstacle
	Intro to app inventor	• Intro to MIT app inventor programming software
July	Display text onto the screen	• Display text onto the android phone screen using the app inventor
	Led blinking	• Programming for LED blinking using app inventor and arduino controlling from the android phone
	Control direction of motor using Mit	• Programming of controlling the DC motor using the android phone
	Remote control car using MIT app	• Programming of app inventor for controlling a robot using the android phones
August	Interfacing tilt sensor by using Arduino	• Learn how tilt sensor different values when it tilt in different direction and control LED accordingly
	Temperature controlled electrical appliances	• By using of temperature sensor control the electrical appliances
	Arduino motion detector	• Make a programme of motion sensor how it detect motion
September	Smart home light system	• Learn how to control the light bulb and other electrical appliances with smart phones
October	Smart street light monitoring by IOT and python	• Learn how street light automatic on during night and off during day
	Arduino Based RF Controlled Robot	• Making a project of RF controlled robot that can be driven remotely
November	Humidity & temperature monitoring	• Learning the use of humidity and temperature that takes information from DHT-11 sensor is analysed graphically on Thing Speak platform using Node MCU and ESP8266 Wi-Fi module.
	RFID based student attendance and monitoring	• learn the concept of RFID tag how it will gave all information by following instruction
	Student scroll their name on LCD Screen	• Programming of Displaying text onto the screen using Atmel series microcontroller
December	Make a robot which can detect the hurdles	• Learning how ultrasonic sensor detect obstacle in front of it and how it turns the motor in another direction when it detect some hurdles
	Introduction of 3D printer and cad designing	• Intro to 3D printer for creating 3D Figures

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	What is cad Design	• Understand the concept of CAD for making a 3D figure
January	Making of key ring with name	• Designing of a key ring by defining the length and radius within the digital file
	Making of edge bracket	• Designing of a fully customized, twin-wire lingual bracket using a 3D printer.
	Making of water bottle	• Designing of water bottle by defining the dimensions into the 3D printer digital file
February	Revision	Annual Examination

Exam Syllabus

Half Yearly	Annual
Multiple choice questions based on activities conducted from April to August	Multiple choice questions based on activities conducted from September to January