

CLASS	SUBJECT	VACATION TASK		
VII	ENGLISH	Online : Write a Poem – “If I Were...” and send to mrrssp1962@gmail.com	Read a book of your own choice (Avoid cheap popular books). Enlist 100 new words along with their synonyms and antonyms. In addition to it; form 100 new sentences employing those words. Finally write a book review based on your understanding. Accomplish the assignment in A4 size sheets separately.	Prepare a mini Visual Dictionary using a notebook or a chart paper. (Select one word each from A-Z from your English Textbook-Poorvi, add a picture, write the meaning, part of speech, one sentence using the word, one synonym, one antonym)
	BENGALI(HR)	১)অনলাইন : একটি তথ্যচিত্র বা পডকাস্ট তথা সাক্ষাৎকার বা নিজস্ব সৃজনশীল ভিডিও নির্মাণ। নিজের কন্ঠস্বর , মুখ , নাম স্পষ্টভাবে বলতে হবে শুরুতেই। ২)অফলাইন : পাঠ্য বিষয়ের উপর একটি সুন্দর সৃজনশীল সার্বিক প্রকল্প নির্মাণ। https://docs.google.com/forms/d/1VqJCEvWKcQcUKCpayDw0GMnfatS8ye0lpzsA6jZstEzM/edit?pli=1&pli=1		
	HINDI(HR)	1. চার্ট পেপার पर "जल संरक्षण" पर एक रंगीन पोस्टर बनाएं और कोई दो अच्छे नारे (Slogans) लिखें। 2. 15 पृष्ठ सुलेख लिखें। 3. कविता 'फूल और काँटा' कंठस्थ करें। 4. कक्षा में पढाए गए पाठ्यक्रम को दोहराएँ एवं दिए गए अभ्यास पत्र को पूर्ण करके लाएँ। 5. मान लीजिए कि कहानी हंस और तीर चलाने वाले के बीच बातचीत हो रही है। जब उसने हंस को घायल किया तो उसमें और हंस में क्या-क्या बातचीत हुई होगी। (संवाद रूप में लिखें) 6. सार्वभौमिक प्रेम और सौहार्द विषय पर तीन देशभक्ति कविताओं की रचना करें।		
	BENGALI (LR)	তোমার বই থেকে প্রথম দশটি পাঠ খাতায় লেখ।		
	HINDI(LR)	स्वर और व्यंजन वर्णमाला लिखें साथ ही साथ अपने आस-पास प्रयोग की जाने वाले वस्तुओं के नाम और उनके चित्र बनाएँ। (स्क्रैप पुस्तक में बनाएँ)		
	SCIENCE	<p>A. Summer Project: The Rainbow Chemistry Canvas (offline) Subject: Science Class: VII Theme: Art-Integrated Learning Task 1: Experiment 1. Prepare: Boil Red Cabbage in water to get a purple indicator (or rub Hibiscus petals on paper). 2. Test: Apply the indicator to these items and record the colour change: (a) Lemon Juice (Acid): (b) Soap Solution (Base): (c) Pure Water (Neutral): Task 2: The Art (Creative) Choose One: • The Reactive Garden: Paint a sheet with your indicator. Once dry, "paint" pink flowers using Vinegar and green leaves using Soap Water. • Neutralization Art: Draw a Warli/Madhubani pattern. Fill one side with Acid and the other with Base. Mix them in the middle and record the colour change. Task 3: Submission (Detailed) To be submitted in a single folder: OFFLINE 1. The Artwork: Your physical "reactive" painting with a small Colour Key in the corner (e.g., Red = Acid, Green = Base). 2. Observation Table: 3. Scientist's Reflection: A 3-sentence note on how a single purple liquid (indicator) can turn into many colours, just like mixing paints in Art class. Safety: Handle all household liquids under adult supervision. Do not taste any samples!</p> <p>B. Summer Project : "Save Energy ,Save Fuel" Awareness campaign (online) Task 1.Create a Digital Poster including Slogans and pictures on this topic . Task 2. Prepare a short 2 mins video on the topic -Efficient use of electricity(Mention atleast 10 possible ways to save electricity, and some real time examples ,individual ideas, models on conserving electricity.) Submit these two online projects to ssptgscience@gmail.com mentioning your name, roll no,class, sec,House in the subject of the email.</p>		
	MATHEMATICS	(1) ART INTEGRATED ACTIVITY: The Cosmic Collage (Large Numbers) Choose a real-world theme like "Planetary Distances from Earth (in kilometers)" or "Population of Major Global Cities". Next to each planet/city, write the exact large number using both the Indian Place Value System (Crores, Lakhs) and the International Place Value System (Millions, Billions). Use glitter or bold metallic pens for commas and place value commas. (2) ONLINE WORK: To make a concept map of the chapters using AI tool Canva - Ch-1-Large Numbers Around Us and Ch-2-Arithmetic Expressions. NOTE: Send the online work to sspakd@gmail.com latest by 08/06/2026 with the following details-Name, Roll No. and class & sec. Section -C to submit online work to sspakmaths@gmail.com		
	SOCIAL SCIENCE	Make an Art Integrated learning Project on the following topic: 1. Dr. B.R. Ambedkar – Architect of the Indian Constitution *Life and contributions of B.R. Ambedkar * Photos and drawings of B.R. Ambedkar *Handwritten slogans and Quotes (online – send the holiday homework of Art Integrated learning project on given email – sspigsocialscience@gmail.com by 8th June 2.create a scrapbook on Geographical Diversity Of India : (Offline) *Collect and paste pictures of mountains , deserts, forests, beaches and plateaus. (Newspaper cuttings , Travel photos , Short descriptions) *NOTE- Use colourful headings , add labels and pictures, keep points short and clear. 3.On the Physical Map Of India , locate and label the following rivers of India – *Ganga * Brahmaputra * Yamuna * Godavari *Krishna *Narmada *Mahanadi * Kaveri *Indus * Tapti		
	COMPUTER	APPLICATION BASED QUESTIONS FROM CH1 AI DOMAINS PAGE 56,57 OF CT&AI STUDENT HANDBOOK and predicting the MAY month Home Electricity Bill(Regression) based on past 4 months data (SNO,MONTH,UNITS,BILL AMOUNT) in excel/word or any AI tool send the soft copy to mail: sspcomp2026@gmail.com with roll no,class,sec,house)		
	ART & CRAFT	Any 6 landscape or still life outline drawing or any kind of drawing for summer vacations & any one craft work and send it to the gmail account creativeminds095@gmail.com		
ENGLISH	Online : My State, My Story – Make a Digital Postcard and send to mrrssp1962@gmail.com or Write a humorous story and send it to mrrssp1962@gmail.com	Read a book of your own choice (Avoid cheap popular books). Enlist 100 new words along with their synonyms and antonyms. In addition to it; form 100 new sentences employing those words. Finally write a book review based on your understanding. Accomplish the assignment in A4 size sheets separately.	1. Offline :Create a "Pocket Dictionary" by picking 200 words.Cadet should write the word, its meaning, synonyms, antonyms, and use it in own sentence.	
BENGALI(HR)	১)অনলাইন : একটি তথ্যচিত্র বা পডকাস্ট তথা সাক্ষাৎকার বা নিজস্ব সৃজনশীল ভিডিও নির্মাণ। নিজের কন্ঠস্বর , মুখ , নাম স্পষ্টভাবে বলতে হবে শুরুতেই। ২)অফলাইন : পাঠ্য বিষয়ের উপর একটি সুন্দর সৃজনশীল সার্বিক প্রকল্প নির্মাণ। https://docs.google.com/forms/d/1VqJCEvWKcQcUKCpayDw0GMnfatS8ye0lpzsA6jZstEzM/edit?pli=1&pli=1			

VIII

HINDI(HR)	पठान गए पाठ को दोहराएँ. अवकाशकालिन अनुभवों को लिखें -15 पृष्ठ व्याकरण: गुहावरें-लिखे एवं याद करें ,कारका, वाक्य, स्वर संधि परियोजना कार्य : किसी भी एक पाठ पर आधारित चलचित्र निर्माण. (ssphindi2024@gmail.com)
BENGALI (LR)	1. "विद्या महाधन" থেকে "আমরা বাঙালি" (পৃষ্ঠা ৫ থেকে পৃষ্ঠা ৩৭) পর্যন্ত লিখবে (Offline) SUB ASSIGNMENT 2. কুমায়ূনের বাঘ প্রসঙ্গে জিম করবেট সম্পর্কে লেখ (Online & Offline) 3. রবার্ট ব্রুস ও তার সফল তার কাহিনী সম্পর্কে লেখ (Online & Offline)
HINDI(LR)	"भारतीय - कृत्य कला:विरासत और संस्कृति " (विषय पर चार्ट बनाएँ) , हस्तलेखन = 15 पृष्ठ 20 मुहावरें, पर्यायवाची शब्द(25), विलोम शब्द (50)
SCIENCE	1. #Online Research Task: Prepare a PPT on the topic HANTA VIRUS(minimum 10 slides) send it to ssptgtsience@gmail.com 2. # Offline Task:* Complete the science workbook from page no 1 to 12. *Prepare an experiment to prove air exerts pressure in all direction *Weather Observation Project:Observe weather for 7 days and prepare a table including:Temperature, Humidity, Rainfall, Wind condition Write a short conclusion on climate changes observed. 3.Activity: "Be a Science Influencer!" Imagine you are a famous science content creator on YouTube, Instagram, or any social media platform. Your task is to create exciting science content based on any one topic from your science textbook. Create a 2–4 minute video explaining the topic. You may: Perform a simple experiment Use charts/models Draw diagrams Ask quiz questions Use creative introductions and conclusions
MATHEMATICS	Chapter-wise Practice from Reference Book(Offline submission) Solve 10 questions from each of the Given topics (reference book e.g., R.D. Sharma, NCERT Exemplar, or any). Chapters to be practiced: A square and a cube, Percentage, Profit & Loss, Ratio & Proportion, Basic Algebra & Mensuration. Maths Activity – Creative Corner(Online submission: click on: https://docs.google.com/forms/d/e/1FAIpQLSePKdoKd7_GtEMhHT8FmzKzVVR2hQuFIZnxHlfEj0BeyuU4AA/viewform?usp=preview) i) CONCEPT MAP – Make a colourful, hand-drawn concept map on following topics: a) A Square and a cube. b) Power play c) The story of numbers ii) Integrated Project Work ii) Prepare any ONE project/model/chart/ppt on: - Mathematical Patterns in Nature - Use of Geometry in Architecture - Data Collection and Bar Graph Representation
SOCIAL SCIENCE	Make an Art Integrated Learning Project on (ANY ONE) of the following topic : (minimum 20 slides) ONLINE 1:Universal Adult Franchise and India's Electoral System OR Technology – An Enabler of Production. Send the holiday homework of Art Integrated Learning Project on given email. class910sst@gmail.com . (by 8th JUNE) (MENTION YOUR NAME,CLASS ,SECTION AND ROLL NUMBER IN THE EMAIL.) . 2.Draw the MIND MAP on the topic: (Offline) Natural Resources Are Limited — Use Them Wisely.(on the chart paper.) 3.On an outline map of India, locate and label the major coal fields and petroleum deposits."(Offline)
COMPUTER	Create the SKILL CENSUS(Qualitative Research) of your RELATIVES/LOCALITIES of 15 people whose age is between 22-35 in MS Excel/Google Spreadsheet/Libre Calc by collecting the data of (NAME,GENDER,AGE,EDUCATIONAL QUALIFICATION,WORK EXPERIENCE,TRAININGS ATTENDED,PROFICIENCY LEVELS(Technical,Soft,Digital Skills)) and analyze the data collected using any Data analytic AI tool .Mail to: sspcomp2026@gmail.com with Roll no ,Name,Class,Sec
ART & CRAFT	Any 6 landscape or still life outline drawing or any kind of drawing for summer vacations & any one craft work and submit in email id- creativeminds095gmail.com

	English	<p>Offline Task: "The Indigenous Pottery"</p> <p>Draw: Make a mind map of the indian arts mentioned at the bottom of page no 51 of *Kaveri* with traditional artistic borders. Write: A 150-word travelogue covering your observations and experiences of the same. Create: A small 3D model of any one of the indigenous art. Include: Handwritten lyrics of a local regional song with its English translation.</p> <p>Reference Textbook: Kaveri (Class IX) — Chapter 2: The Pot Maker</p> <p>Submission Hand over the assignment in A4 size sheets/ scrapebook and model on reporting to the school by 24th June, 2026.</p> <p>Online Task: "E-Chronicles of the Motherland"</p> <p>Reference Textbook: Kaveri (Class IX) — Chapter 2: Bharat Our Land</p> <p>Design: A presentation (Google Slides/Canva) covering the region's climate, life, and languages. Record: Embed a 2-minute audio script explaining the cultural data on the slides. Graphic Art: Create and insert a digital infographic poster of the region's flora and fauna.</p> <p>Submission Submit the live presentation link and poster PDF via Email (sspenglish2024@gmail.com) by 8th June, 2026.</p>	Read a book of your own choice (Avoid cheap popular books). Enlist 100 new words along with their synonyms and antonyms. In addition to it; form 100 new sentences employing those words. Finally write a book review based on your understanding. Accomplish the assignment in A4 size sheets separately.
IX	MATHEMATICS	<p>(1) ART INTEGRATED ACTIVITY: The Square Root Spiral (Visual Geometry). This activity integrates maths with string art or geometric drawing by constructing a continuous visual representation of irrational numbers. Colour the interior triangles using different mediums (e.g., watercolors or colored pens) to create a stained-glass effect. (2) ONLINE WORK: Cartoon / Animal Graphing using AI tools Canva and Geogebra: Plot points to outline a recognizable animal, flower, or cartoon character. List all the coordinates used and highlight how different signs (e.g., negative/positive) determine the quadrant. Online Work Report (Hard copy)-To complete the work for your internal assessment, bring a short 100-150 word report to your artwork: Briefly explain the goal of plotting your design. Write down the rules for the four quadrants. (3) Maths Practice work- To practice the Exercise and Chapter End questions of Chapters- Ch-1-Orienting Yourself: The Use of Coordinates and Ch-3-The World of Numbers from the NCERT book Ganita Manjari. NOTE: Send the online work to email sspakd@gmail.com latest by 08/06/2026 with the following details-Name, Roll No. and class & sec.</p>	
	हिंदी	<ol style="list-style-type: none"> कक्षा में पढ़ाए गए पाठ्यक्रम को दोहराएँ एवं दिए गए अभ्यास पत्र को पूर्ण करके लाएँ। 20 पृष्ठ सुलेख लिखें। कविता (गीत) और अभिनन्दन-पत्र “बाल सभा ने निश्चय किया, दोनों पशुवीरों को अभिनन्दन-पत्र देना चाहिए।” (क) मान लीजिए कि बाल-सभा ने हीरा और मोती की प्रशंसा में एक गीत लिखा और गाया। अपनी कल्पना से वह गीत लिखिए। (ख) हीरा और मोती के लिए (अभिनन्दन-पत्र लिखिए) सार्वभौमिक प्रेम और सौहार्द विषय पर तीन देशभक्ति कविताओं की रचना करें। अपनी पसंदीदा कविता को सुंदर अक्षरों में लिखकर चित्रों से सजाइए। संज्ञा, सर्वनाम, विशेषण, विराम चिह्न, निपात, और उपसर्ग-प्रत्यय की परिभाषा और उदाहरण लिखें। (PPT के माध्यम से प्रस्तुत करें) कृपया गृह कार्य को पूर्ण करके दिनांक 08 जून 2026 - तक hindicell2@gmail.com इस ई मेल पर भेजे। 	
	SOCIAL SCIENCE	<ol style="list-style-type: none"> As per the CBSE curriculum 2026-27, multiple assessment is an imperative tool to evaluate the student learning and skill. Referring to the above curriculum, the holiday home work for class IX is one of the tools - Map work (Offline) On the outline map of India, mark and label the points and locations as specified by CBSE curriculum 2026-27 for Social Science. Considering the National Curriculum Frame work for School Education 2023 (NCF-SE) and the CBSE curriculum 2026-27, the interdisciplinary project is assigned. The topics are – (Online) <ol style="list-style-type: none"> Climate Change and Carbon Footprint of Our Community Ancient Indian Civilizations and Sustainable Urban Planning Democracy, Elections and Digital Media Influence <p>Send the online homework to email: class910sst@gmail.com (by 8th June)</p> <ol style="list-style-type: none"> MAP (History) <ol style="list-style-type: none"> Important sites of Neolithic period in India On the outline map of India mark the important sites of Harappan civilisation. On the outline map of the world mark the four Bronze age civilisation of the world and the river. On the outline map of India mark the famous ancient temples/mosques/churches (Chola , Cheras etc) of India. (Paste photos) On the outline map of India mark the famous forts of India (Paste Photos, and write who, where , when , for what about it) Minimum -10 <p>* Prepare an infographic on Art Integrated theme pairing UT-Delhi with Sikkim to explore culture , geography , art (,music , dance , theatre) visualising scientific/Mathematical development.</p>	
	BENGALI	<ol style="list-style-type: none"> অনলাইন : একটি তথ্যচিত্র বা পডকাস্ট তথ্য সাক্ষাৎকার বা নিজস্ব সৃজনশীল ভিডিও নির্মাণ। নিজের কণ্ঠস্বর , মুখ , নাম স্পষ্টভাবে বলতে হবে শুরুতেই। অফলাইন : পাঠ্য বিষয়ের উপর একটি সুন্দর সৃজনশীল সার্বিক প্রকল্প নির্মাণ। https://docs.google.com/forms/d/1VqJCEvWKcQUKCpayDw0GMnfatS8ye0lpzsA6jZstEzM/edit?pli=1&pli=1 	
	COMPUTER	<p>"Create an Infographic on AI advancements in Health,Diagnosis,Education,Business,Banking,Communication using any online tool(Ex:Canva,NOTEBOOK LM,XMIND etc.,) mail to sspitcell@gmail.com with roll no, name ,class ,sec"</p>	

SCIENCE	<p>#Online Research Task: Prepare a PPT and digital poster on: any two topics and submit in the given email I'd: ssptgtscience@gmail.com ISRO mission,, Plastic pollution, Nobel Prize-winning scientists, Future of robotics Include: Images , Timeline, Key achievements, Conclusion #Science Scrapbook: Prepare a handmade scrapbook on (offline work) any one Space science, Human body, Environmental pollution, Natural disasters, Renewable energy Offline. Physics: Activity: "Be a Science Influencer!"</p> <p>Imagine you are a famous science content creator on YouTube, Instagram, or any social media platform. Your task is to create exciting science content based on any one topic from your science textbook. Create a 2–4 minute video explaining the topic. You may:</p> <p>Perform a simple experiment Use charts/models Draw diagrams Ask quiz questions Use creative introductions and conclusions</p>	Offline. Make a synopsis in detail on the topic, Interchanges of states of matter with the help of diagrams.
ENGLISH	<p>1.OFFLINE TASK : READ AND WRITE AFTER ANSWERING THE EXERCISES AND WORKSHEETS OF UNIT 1- 4 FROM WORDS AND EXPRESSIONS 2 IN YOUR LANGUAGE COPY. 2.ONLINE TASK: SPEAK ON ANY ONE OF THE TOPICS Importance of sports and games / Generation gap / Pleasures of mountaineering / Variety is the spice of life / Modern fashion/ Cowards die many a time before their death/ Inside an examination hall / Adversity brings out the best in man / If I were a millionaire AND UPLOAD IT ON YOUTUBE AND SHARE THE LINK OF THE SAME VIA EMAIL ID sspenglish2024@gmail.com 3.Read a book of your own choice (Avoid cheap popular books). Enlist 100 new words along with their synonyms and antonyms. In addition to it; form 100 new sentences employing those words. Finally write a book review based on your understanding. Accomplish the assignment in A4 size sheets separately.</p>	
BENGALI	<p>১) অনলাইন : একটি তথ্যচিত্র বা পডকাস্ট জমা সাফাফকার বা নিজস্ব সৃজনশীল ভিডিও নির্মাণ। নিজের কণ্ঠস্বর , মুখ , নাম স্পষ্টভাবে বলতে হবে শুরুতেই।</p> <p>২) অফলাইন : পাঠ্য বিষয়ের উপর একটি সুন্দর সৃজনশীল সার্বিক প্রকল্প নির্মাণ। https://docs.google.com/forms/d/1VqJCEvWKCqUKCpayDw0GMnfatS8ye0lpzsA6jZstEzM/edit?pli=1&pli=1</p>	
हिंदी	परियोजना कार्य : बड़े भाई साहब कहानी का नाट्य रूपांतरण करें और समूह बनाकर उसका मंचन करें।	अध्यापिका द्वारा दिये गए सामग्री : पाठ संबंधी प्रश्नोत्तर , वाक्य , मुहवार्ते को अपनी पुस्तिका में लिखें और याद करें। दिए गए विषय पर पत्र लेखन और ईमेल लेखन लिख कर लाएं।

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	<p>Chapter: Life Processes "SCIENCE JOURNAL" Objective To understand how living organisms perform essential life processes through observation, creativity, experiments, research, and real-life applications.</p> <p>Section A – Creative Cover Page (5 Marks) Design an attractive cover page with: • Title: "Life Processes – The Science of Living" • Your Name • Class & Section • School Name • Roll Number</p> <p>Decorate using human body diagrams, leaves, lungs, heart, food chain sketches, or digital art.</p> <p>Section B – Mind Map Activity (05 Marks) Create a colorful Mind Map showing Nutrition,/Respiration/Transportation or Excretion with key organs, functions, and examples.</p> <p>Section C – Nutrition Detective (10 Marks) Prepare a 1-day diet chart of your family mentioning food taken, nutrients present, and whether it is a balanced diet. Answer questions about nutrient intake and healthy improvements.</p> <p>Section D – DIY Biology Experiment (10 Marks) Experiment: Test for Starch in Food Materials: Potato slice/bread/rice, iodine solution (Betadine Solution), dropper. Procedure: Add iodine to food sample and observe color change. Observation: Blue-black color indicates starch.</p> <p>Section E – "The Food Journey" Stop-Motion Video: (10 Marks) Create a short stop-motion video of 01 minutes or a comic strip storyboard illustrating the journey of a sandwich through the human digestive system, highlighting the enzymes involved at each stage (amylase, pepsin, trypsin) OR "Guard Cell" Animation: Create a short stop-motion video of 02 minutes on stoma, showcasing its open and closed states to explain the regulation of water loss.</p> <p>Section F – Creative Model / Art Integration (20 Marks) Art integration using Warli art, Madhubani art, 3D poster, or clay model Human Digestive System.</p> <p>Section G – Crossword / Quiz Fun (10 Marks) Create a crossword or quiz using biology terms like Nephron, Xylem, Phloem, Respiration, Stomata, Artery, Vein, and Glucose from the Chapter-Life Processes.</p> <p>Submission Guidelines: 1. Submit the Journal in a neatly decorated file/folder with labeled diagrams and photographs wherever possible by 24th June 2026 in offline mode in school after reporting back from Vacation. 2. Section-E videos(Not more than 01 Minutes) to be submitted online by 08th June 2026 in the following link (COPY AND PASTE LINK GIVEN BELOW IN THE GOOGLE CHROME AND ENTER .FILL OUT THE GOOGLE FORM): https://docs.google.com/forms/d/e/1FAIpQLSeAURaQ4uvbKA60IRnZs7K31E6am6fD0D8FSQEAWoQnycTLWg/viewform?usp=publish-editor</p> <p style="text-align: center;">PHYSICS (OFF LINE)</p> <p>1. Define the principal focus of a concave mirror. How does it differ from the focus of a convex mirror? 2. Why is a convex mirror preferred as a rear-view mirror in vehicles? Give two reasons. 3. A ray of light traveling in air enters obliquely into water. Does the light ray bend towards the normal or away from the normal? Why? 4. State the Laws of Refraction (Snell's Law). 5. What is the relationship between the radius of curvature (R) and focal length (f) of a spherical mirror?</p> <hr/> <p>Section B: Numerical Problems 6. Mirror Formula Application An object 5 cm in length is placed at a distance of 20cm in front of a convex mirror of radius of curvature 30cm. Find the position of the image, its nature, and its size. 7. Magnification & Nature A concave mirror produces a real image of size 9cm for an object of size 3cm placed at 20cm from the mirror. Calculate: • The focal length of the mirror. • The position of the image.</p> <p>8. Refractive Index Calculation The refractive index of glass is 1.5 and that of water is 1.33. • Calculate the speed of light in glass. (Speed of light in vacuum = 3×10^8 m/s) • Calculate the refractive index of glass with respect to water.</p> <p>9. Lateral Displacement Light enters from air into a rectangular glass slab. Draw a ray diagram showing the lateral displacement. Label the incident ray, refracted ray, emergent ray, and the angle of emergence.</p> <hr/> <p>Section C: Assertion & Reasoning In the following questions, a statement of Assertion (A) is followed by a statement of Reason (R). Choose the correct option: (a) Both A and R are true and R is the correct explanation of A. (b) Both A and R are true but R is NOT the correct explanation of A. (c) A is true but R is false. (d) A is false but R is true. 10. Assertion (A): The refractive index of a medium is always greater than 1. Reason (R): The speed of light in any medium is always less than the speed of light in a vacuum. 11. Assertion (A): A ray of light passing through the centre of curvature of a concave mirror is reflected back along the same path. Reason (R): The incident ray falls on the mirror along the normal to the reflecting surface.</p> <p>Offline. Make a synopsis in detail on the topic, Effects of Red Ox reactions in our daily life.</p>
<p>Mathematics</p>	<p>I) Subject Enrichment Activity 1. To draw the graphs of quadratic polynomials , Activity 2. To verify the conditions of consistency/inconsistency for the pairs of linear equations in two variables by graphical method https://1drv.ms/w/c/e5693efbf0b79d81/1QAgvtDhjsLJRb1Z_tMpH6zAUb791fls_9U6YQdDlo-Svo?e=pWsYOV(Use II) Art integrated project- using AI tools (canva) make concept maps/mind maps for the chapters; Real Numbers, Polynomials , Linear Equations, Quadratic equations and submit it by 8th june on- sspakmaths@gmail.com III) Do 20 questions(short and long answer type) each from the chapters given above including PYQs, CBQs, Board Model Questions from different resources (questions and answers both to be done in seperate copy).</p>
<p>COMPUTER</p>	<p>"Create the Budget for Summer Holiday Tour and work on what if analysis (Solver,Scenarios,Goal Seek) with fields(Expenses(Travel Plan,Hotel Room,Food,Sight Seeing etc.)),Amount in Libre office Calc and mail to sspitcell@gmail.com with your name,roll no,class,sec,house."</p>

SOCIAL SCIENCE	<p>1. As per the CBSE curriculum 2026-27, multiple assessment is an imperative tool to evaluate the student learning and skill. Referring to the above curriculum, the holiday home work for class X is one of the tools - Map work On the outline map of India, mark and label the points and locations as specified by CBSE curriculum 2026-27 for Social Science. (Offline)</p> <p>2. Prepare an Infographics using an AI tool PIKTOCHART on Art Integrated cum Interdisciplinary theme on the following topics: (Online)</p> <p>(a) Community-Based Environmental Conservation in India: Practices, Challenges, and Sustainable Outcomes. (b) The Making of a Global World: Trade, Empire, and Migration (c) From Silk Routes to World Wars: Tracing the Roots of Globalization Colonialism and Commerce (d) Colonialism and Commerce: Foundation of global economy (e) How the world become one: A journey through global history (f) Movement of people, goods and ideas – Building a global world (g) Global World Global Ties and Colonial Chains: The Other Side of Integration" (h) Economic flows and global shift – Understanding globalization through history</p> <p>Send the online homework to email: class910sst@gmail.com (by 8th June)</p>
Physics	<p>Online task: Basic Mathematics Practice Questions</p> <p>Differentiation</p> <p>1. Differentiate: $y = x^3 + 5x^2 - 4x + 7$ 2. Find dy/dx if $y = \sin(x) + \cos(x)$ 3. Differentiate: $y = e^{(2x)} * \ln(x)$ 4. Find the derivative of $y = x^x$ 5. Differentiate: $y = (3x^2 + 2x)/(x - 1)$</p> <p>Integration</p> <p>1. Integrate: $\int (3x^2 + 2x + 1) dx$ 2. Evaluate: $\int \sin(x) dx$ 3. Find $\int e^{(2x)} dx$ 4. Evaluate: $\int 1/(x) dx$ 5. Find $\int (2x \cos(x^2)) dx$</p> <p>Graphs</p> <p>1. Sketch the graph of $y = x^2$ 2. Sketch the graph of $y = x$ 3. Plot $y = \sin(x)$ for $0 \leq x \leq 2\pi$ 4. Identify the intercepts of $y = 2x + 3$ 5. Sketch $y = 1/x$</p> <p>Trigonometry</p> <p>1. If $\sin(\theta) = 4/5$ for a given angle, what is the value of $\tan(\theta)$? 2. The value of $\cos(120^\circ)$ is frequently required to calculate the work done by frictional forces. Its exact value is: a) $1/2$ b) $-1/2$ c) $\sqrt{3}/2$ d) $-\sqrt{3}/2$ 3. In projectile motion, range $R = (u^2 \sin 2\theta)/g$. Find θ for maximum range. 4. Simplify: $\sin^2\theta + \cos^2\theta + \sin 2\theta$ 5. Evaluate $\tan 15^\circ$ 6. Evaluate $\sin 300^\circ$</p> <p>Coordinate Geometry (Straight Line)</p> <p>1. Find slope of line passing through (1,2) and (3,6) 2. Find equation of line with slope 2 passing through (0,3) 3. Convert $2x + 3y - 6 = 0$ into slope-intercept form 4. Find intercepts of $x + y = 4$ 5. Find distance between points (2,3) and (5,7)</p> <p>OFFLINE Task: Investigatory Project - working model and project file. Subject matter: As discussed in last lab class.</p>
XI MATHEMATICS	<p>1. CONCEPT MAP:- (ONLINE SUBMISSION: Click on given google form https://docs.google.com/forms/d/e/1FAIpQLSfVWKg05TXjt-29FwkkwwBNmzt_eejCY1brhJ3FAkIB09MyAA/viewform?usp=preview</p> <p>Make a colorful, hand-drawn concept map (A4-paper) On following topics:</p> <p>i) CH:- SETS ii) CH:- RELATIONS –FUNCTIONS iii) CH:- COMPLEX NUMBERS iv) CH:- PERMUTATIONS & COMBINATIONS</p> <p>2. NDA PYQ Solving : Solve NDA Previous Year Papers (2022 TO 2026 NDA-I): i) CH:- SETS : 40 Questions. ii) CH:- COMPLEX NUMBERS:40 Questions. iii) CH:- PERMUTATIONS & COMBINATIONS: 40 Questions.</p> <p>https://docs.google.com/forms/d/e/1FAIpQLSfVWKg05TXjt-29FwkkwwBNmzt_eejCY1brhJ3FAkIB09MyAA/viewform?usp=publish-editor</p>
CHEMISTRY	<p>Investigatory Project: Investigatory Projects are part of obligatory assignment to be submitted at the end of the year for the partial fulfillment of the course as outlined by the curriculum guidelines by the CBSE 2026-27. Prepare an investigatory project file on the topic already given to you and submit the printed report in A4 size papers and you must send the soft copy of the same in this Mail id sspchemistry1962@gmail.com by 8th June, 2026.</p> <p>The project will be done and presented in this order</p> <ul style="list-style-type: none"> <input type="checkbox"/> Cover page showing project title, student information, school and year <input type="checkbox"/> Certificate & Acknowledgement <input type="checkbox"/> Objectives <input type="checkbox"/> Method <input type="checkbox"/> Result <input type="checkbox"/> Analysis & Interpretation <input type="checkbox"/> Discussion ,Conclusion & References. https://drive.google.com/drive/folders/1UZic2_WiiBP0qCNBxrsWNbKYZS6UGc2o

Biology	<p>1. Investigatory Project: Investigatory Projects are part of obligatory assignment to be submitted at the end of the year for the partial fulfilment of the course as outlined by the curriculum guidelines by the CBSE 2026-27. Prepare a investigatory project file on the topic choosen by you and submit the printed report in A4 size papers in a spiral bounded format. The project will be done and presented in this order</p> <ul style="list-style-type: none"> <input type="checkbox"/> Cover page showing project title, student information, school and year <input type="checkbox"/> Certificate ,Acknowledgement,Index <input type="checkbox"/> Objectives <input type="checkbox"/> Materials Required,Procedure,Observation <input type="checkbox"/> Result <input type="checkbox"/> Analysis & Interpretation <input type="checkbox"/> Discussion ,Conclusion , Bibliography. <p>2. Solve PYQP of UPSC NDA/NA Exam. of last five years.(2021, 2022,2023,2024,2025,2026(I)).Send the OMR by Online and submit the OMR while reporting back from Home after vacation.</p>
Computer	1.All NCERT questions of chapter 2 and chapter 3.
English	1. Describe the changing relationship between the grandmother and the narrator. (The Portrait of a Lady) 2. Write the Central idea of the poem "A Photograph" including a short note on the poetic devices used. 3. Write an essay on the effects of war as shown in the story "The Address". 4. Pick any 5 sentences from your textbook (Hornbill or Snapshots) and identify the Tense, Parts of speech, Voice, and Clause used in these sentences. 5. Read a book of your choice from the genres Autobiography, Defence or Security and write a 300–500 word book review including the author, summary, major themes, key takeaways, and your personal response to the book. Also list 100 new words from the text with their synonyms, antonyms, and one sentence each.
Computer	<p>1. Difference between builtin function and user define function</p> <p>2 .Describe opening modes of a text file.</p> <p>3.Difference between read(),readline(),readlines().</p> <p>4.Difference between "w" and "a" mode.</p> <p>5.what is a file pointer?</p> <p>6.Difference between text file and binary file?</p> <p>7.20 coding questions given in offline mode. Write these 20 coding questions in your practical copy</p>
CHEMISTRY	<p>1. Solve UPSC NDA NA GAT CHEMISTRY PYQ https://questions.examside.com/past-years/defence/nda/general-science/chemistry https://civilserviceaspirants.in/NDA-Exam-Syllabus/Nda-chemistry/Organic-chemistry-1.php https://www.oswaal360.com/pages/nda-previous-year-question-papers-with-solution-free-pdf-download https://www.getmarks.app/upsc/science-and-technology/chemistry & Arihant pathfinder book Chemistry Exercise questions https://drive.google.com/drive/folders/1VRzQA65eZfPSmoU9ogUzJXmG06s_cdB8</p> <p>2. Update chemistry Laboratory Note book.</p> <p>3. Prepare formula sheets of Solutions and Electrochemistry unit , Practice numerical problems from these Chapters.</p>
BIOLOGY	<p>1. Investigatory Project are part of obligatory assignments requirement for partial fulfilment of AISSCE Exam as prescribed by the CBSE for the session 2026-27. Prepare a Project file on the Topic allotted to you and submit the synopsis after vacation 24 June 2026. The Project file should contain the following:</p> <p>(i) Design an attractive cover page with:(Use software for design like Canva/Prepare the handmade Design.</p> <ul style="list-style-type: none"> • Title of the investigatory project • Your Name • Class & Section • School Name • Roll Number: <p>(ii) Objectives: Express as clearly as possible the effect of one variable that the experiment is designed to investigate.</p> <p>(iii) Materials needed: This might be just a list, or a diagram if a particular piece of apparatus was used.</p> <p>(iv) Method: Describe the procedure stepwise including the precautions taken, if any.</p> <p>(v) Result: A suitable chart or table for recording and organising your readings or measurements should be made out before you start the experiment.</p> <p>(vi) Analysis and interpretation: Observation data are factual, and may not be as expected by you.</p> <p>(vii) Discussion: Discuss briefly the implication of your results and suggest extensions of any kind that can be undertaken.</p> <p>(viii) Conclusion: In view of the results obtained and related work done on the topic of the project, write conclusion briefly.</p> <p>(ix) References: Any work related to the project which you have come across through books/articles or any other source should be written.</p> <p>2. Solve the Last five years (2021 to 2026) of UPSC NDA/NA Exam . Papers and Submit the OMR both Offline and online in the Given Link: https://drive.google.com/drive/folders/1rZZZqbjnTIL5Ik8VU0biwSjYsJNjIk6F2sHDWUsg4rCzWreQ1jJrMpggkAXSGJtSFa-saEI</p>
English	1. Write the character sketches of Franz and Saheb-e-Alam. 2. Write about the main themes mentioned in 'Lost Spring' and 'The Third Level'. 3. Write a poetic analysis of the poem 'My Mother at Sixty-Six', including a note on poetic devices. 4. Read a book of your choice from the genres Autobiography, Defence or Security and write a 300–500 word book review including the author, summary, major themes, key takeaways, and your personal response to the book. Also list 100 new words from the text with their synonyms, antonyms, and one sentence each.

Online Task: 1-Mark Objective & Very Short Answer Type Questions

Question 1 [CBSE 2025, Delhi Set-I] (1 Mark)

A beaker is filled with water of refractive index $(4/3)$ up to a height H . A coin is placed at its bottom. The apparent depth of the coin, when viewed along the near normal direction, will be:

- (A) $H/4$ (B) $3H/4$ (C) H (D) $4H/3$

Question 2 [CBSE 2023, Outside Delhi] (1 Mark)

A ray of light of wavelength 600 nm propagates from air into a medium. If its wavelength in the medium becomes 400 nm , the refractive index of the medium is:

- (A) 1.4 (B) 1.5 (C) 1.6 (D) 1.8

Question 3 [CBSE 2024, Delhi Set-II] (1 Mark)

A biconvex lens of focal length ' f ' is vertically cut into two identical plano-convex halves along its principal axis. The focal length of each individual part will be:

- (A) $f/2$ (B) f (C) $2f$ (D) $4f$

Question 4 [CBSE 2022, Term-II] (1 Mark)

The critical angle for a pair of a transparent medium and air is 30° . Calculate the speed of light in this transparent medium.

Question 5 [CBSE 2021, Special Assessment] (1 Mark)

How does the focal length of a convex lens change when the incident violet light is replaced by red light? Justify your response.

2 & 3-Mark Short Answer Type Questions

Question 6 [CBSE 2025, Delhi Set-I] (2 Marks)

A double convex lens is made of glass of refractive index 1.55 with both faces having the same radius of curvature. Find the value of radius of curvature required if the focal length of the lens is to be 20 cm .

Question 7 [CBSE 2024, Outside Delhi] (3 Marks)

Two thin convex lenses A and B of focal lengths 15 cm and 10 cm respectively are placed coaxially ' d ' distance apart. A point object is kept at a distance of 30 cm in front of lens A. Find the value of distance ' d ' such that the final rays emerging from lens B are parallel to its principal axis.

Question 8 [CBSE 2023, Delhi Set-III] (3 Marks)

A point object in air is placed symmetrically at a distance of 60 cm in front of a concave spherical glass surface of refractive index 1.5 . If the radius of curvature of the spherical surface is 20 cm , find the position of the image formed.

5-Mark Long Answer Derivations & Case Study Questions

Question 9 [CBSE 2024 & 2022] (5 Marks)

(a) Draw a neat and labeled ray diagram showing the image formation of a distant object by an astronomical telescope in normal adjustment. Derive the expression for its magnifying power.

(b) Write two primary advantages of a reflecting telescope over a refracting telescope.

Section B: Wave Optics

1-Mark Objective & Very Short Answer Type Questions

Question 10 [CBSE 2025, Delhi Set-I] (1 Mark)

In a single-slit diffraction experiment, the slit is illuminated by light of wavelength 600 nm . If the first minimum of the diffraction pattern falls at an angle of deviation $\theta = 30^\circ$, calculate the exact width of the slit.

Question 11 [CBSE 2024, Delhi Set-I] (1 Mark)

Two coherent light waves, each having an individual intensity I_0 , superpose to produce an interference pattern on a screen. The resultant intensity at a point where the phase difference between them is Φ will vary between:

- (A) 0 and $2I_0$
 (B) 0 and $4I_0$
 (C) I_0 and $2I_0$
 (D) $2I_0$ and $4I_0$

Question 12 [CBSE 2023, Outside Delhi Set-II] (1 Mark)

What is the shape of the wavefront when light emerges out of a convex lens when a point source of light is placed exactly at its principle focus?

2 & 3-Mark Short Answer Type Questions

Question 13 [CBSE 2025, Delhi Set-I] (3 Marks)

(a) What are coherent sources of light? Why are they considered absolutely necessary for observing a sustained, distinct interference pattern?

(b) Explain briefly why two independent, separate light bulbs cannot produce an interference pattern.

Question 14 [CBSE 2024, Delhi Set-I] (3 Marks)

In Young's double-slit experiment, the slits are separated by 0.30 mm and the screen is kept 1.5 m away from the slits. The wavelength of light used is 600 nm . Calculate:

- (i) The distance between the central bright fringe and the fourth bright fringe.
 (ii) The fringe width if the entire apparatus is immersed in water of refractive index $4/3$.

5-Mark Long Answer Derivations

Question 15 [CBSE 2024 & 2023] (5 Marks)

(a) State Huygens' principle for the propagation of light waves.

(b) A plane wavefront propagating in a rarer medium of refractive index n_1 is incident at an angle ' i ' on a plane surface separating it from a denser medium of refractive index n_2 ($n_2 > n_1$). Using Huygens' construction of secondary wavelets, draw the refracted wavefront and verify Snell's law of refraction.

UPSC NDA Task: last 5 year Physics related questions. Available in Marks app. OFFLINE Task : Activities as discussed in LAB.

MATHS	<p>1. CONCEPT MAP:- (ONLINE SUBMISSION: Click on given google form: https://docs.google.com/forms/d/e/1FAIpQLSc0_mrXt7qXxxgiexjs3dAXxYYLo7vs9r0bQhP_IsM355bLkA/viewform?usp=preview)</p> <p>Make a colorful, hand-drawn concept map (A4 paper) On following topics:</p> <ul style="list-style-type: none">i) CH:- RELATIONS –FUNCTIONS.ii) CH:- INVERSE TRIGONOMETRYiii) CH:- MATRICES AND DETERMINANTS <p>iv) CH:-VECTOR ALGEBRA</p> <p>2. UPSC / NDA Previous Year Questions Practice: (OFFLINE SUBMISSION: Make separate notebook)</p> <p>Solve Mathematics PYQs related to:</p> <ul style="list-style-type: none">a) Algebra: 60 No. of questions.b) Trigonometry: 60 No. of questions.c) Statistics: 30 No. of questions <p>Note: write all questions with solutions</p>
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