SHAMBHU DAYAL GLOBAL SCHOOL
HOLIDAY HOMEWORK (2025-26)
CLASS – X

ENGLISH	MATHEMATICS
1. The Power of the Pen: Writers Who Changed the World (Roll no.1 to 5) Task: Research a writer (e.g., George Orwell, Harper Lee, Rabindranath Tagore) whose work sparked social or political change. Include: Life story, key works, social issues addressed, and real-world impact. 2. Climate Change in Literature (Roll no.6 to 10) Task: Explore how literature addresses environmental issues. Include: Summary and analysis of any poem or short story related to nature or climate (e.g., Dust of Snow, A Thing of Beauty), plus a real-life parallel issue. 3. The Journey of a Word (Roll no. 11 to 15) Task: Pick 10 common English words and trace their etymology (origin and changes in meaning over time). Include: Word origin, historical use, current meaning, and usage in sentences. 4. Influence of Technology on Language 5. (Roll no. 16 to 20) Task: Investigate how texting, memes, and social media have shaped modern English. Include: Examples of abbreviations, emojis, slang, and their impact on grammar and communication. 5. Women in Literature (Roll no 21 to 25) Task: Study the portrayal of women in classic and modern English literature. Include: Compare two characters (e.g., Portia from The Merchant of Venice and Anne Frank from her diary) in terms of strength, independence, and values. 6. A Nation's Voice: Speeches That Inspired Change (Roll no 26 to 30) Task: Research a famous English speech (e.g., "Tryst with Destiny" by Nehru or "The Gettysburg Address" by Lincoln). Include: Speaker background, occasion, rhetorical devices, and message. 7. Literature of Protest and Freedom (Roll no 30 to 35) Task: Research and analyze protest poems or essays from freedom movements (India or worldwide). Include: Summary of the piece and its relevance in today's context. 8. Impact of British Colonialism on Indian English Writing (Roll no. 34 to 40)	**Maths Projects:** 1. Develop Heron's formula for the area of a triangle. 2. Story of π 3. Development of number system with their needs. 4. Chronology of Indian mathematicians with their contributions. 5. Development of formula for the area of a cyclic quadrilateral. 6. Pythagoras theorem – Proofs other than those given in the present textbook. 7. Extensions of Pythagoras theorem. 8. Classification of solid figures with respect to surface area and volume. 9. Sum of exterior angle of a polygon taken in order. 10. Generation of Pythagorean triplet. **For File Presentation** • Title page with your name, roll number, class, subject. • Clear headings and subheadings. • Use colourful pens, highlighters, and neat diagrams. • Conclusion or what you learned from the project. • Bibliography (if external sources are used) • Do all the given projects in practical file.

Task: Study how British rule influenced the evolution of English literature in India. Include: Key writers (like Mulk Raj Anand, R.K. Narayan), themes, and examples.	

SCIENCE	HINDI
Topic-Effect of Temperature on the Rate of a Chemical Reaction Using Baking Soda and Vinegar **Your investigation must include these points-** Aim Theory Materials Required Procedure Observation Conclusion Precautions Scientific Principle involved **Record this project in project file**	**(पोस्टर + स्लोगन)** किसी वस्तु का आकर्षक हिंदी विज्ञापन बनाएं तथा उसी से संबंधित एक नारा a4 सीट पर लिखें और चारों तरफ बॉर्डर बनाकर सजाएंपोस्टर+ स्लोगन) जैसे – "रोबोट झाड़ू" या "ऑर्गेनिक बिस्किट"। 📚 **'मेरी पढ़ी हुई किताब' समीक्षा** ● गर्मियों में पढ़ी गई किसी हिंदी पुस्तक (कहानी, आत्मकथा, उपन्यास) की समीक्षा करें : लेखक का नाम कहानी का सार आपको क्या पसंद आया / नापसंद आया क्या सीखा? **रोचक तथ्य** ● अपनी पाठ्य पुस्तक क्षितिज के पाठ "बालगोबिन भगत" (लेखक रामवृक्ष बेनीपुरी) तथा पाठ "आत्मकथ्य" (जय शंकर प्रसाद) के जीवन से संबन्धित रोचक तथ्य लिखकर फाइल में लगाएं। 📅 **"एक दिन... बिना मोबाइल के"** पूरे दिन मोबाइल इस्तेमाल न करें और उस अनुभव पर एक अनुच्छेद लिखिए – आपने क्या महसूस किया, क्या नया किया, कठिनाई क्या थी आदि। ● अपनी पुस्तिका की किसी एक कविता का कंठस्थ पाठ करें और उसका अर्थ समझाएं (वीडियो बना सा। ● एक पोर्टफोलिओ फाइल बनाएँ जिसका उदाहरण आपको साथ ही भेजा जा रहा है। A4 साइज़ रंगीन पेपर पर बनाए। इस लिंक को देखकर उदाहरण ले सकतेहैं। https://youtu.be/JmlQ5EKMllU ● अभी तककक्षा में जो भी पढ़ाया गया हैद करे, आते ही टेस्ट लिया जाएगा। ● उपरोक्त सभी कार्य A/4 साइज पेपर पर लिखकर फाइल में लगाकर लाएं, तभी आपको इसके अंक प्रदान किए जाएंगे। ● कार्य पूर होने पर ही अंक प्रदान किए जाएंगे अन्यथा नहीं।

FRENCH	SANSKRIT
TOPIC: "Moi, mon avenir et mes amis" (Me, my future, and my friends) **PART A**: Mon profil personnel Create a French profile for yourself with: ● Nom: ● Âge: ● Nationalité: ● Ville: ● École: ● Ce que j'aime: ● Ce que je n'aime pas: ● Mon/ma meilleur(e) ami(e): (Name, age, hobbies – in French, 3–5 lines) Include your photo or a drawing **PART B**: Une Interview – Mon futur après le bac	प्रथम तथा द्वितीय पाठ जितने भी श्लोक है उन सभी का हिंदी अनुवाद तथा अन्वय a4 शीट पर लिखे तथा किन्हीं दो श्लोक का वाचन करते हुए एक वीडियो बनाएं अपने मित्र को एक संस्कृत मैं पत्र लिखें स्वयं एक चित्र का निर्माण करें या प्रिंट आउट निकाल कर लगा तथा उससे संबंधित पांच वाक्य संस्कृत में लिखें विद्या विनयम इस विषय पर 10 पंक्तियों का एक अनुच्छेद संस्कृत लिखें 51 से 100 तक संस्कृत में गिनती लिखें

Write a mock interview in French about your futureplans: Titre: "Mon avenir – Une interview avec moi-même" Include: 1. Quelle profession voudrais-tu faire plus tard? Pourquoi ? 2. Où voudrais-tu étudier après la classe 12? 3. Quelles matières préfères-tu à l'école? 4. Qu'est-ce que tu n'aimes pas comme matière? 5. Tu veux voyager? Où ? Pourquoi ? Write the Q&A in French. Use vocabulary and expressions from Lesson 2. **PART C**: Creative Section – Collage or Poster Create a colorful A4 poster showing: • 3 professions you like (in French with pictures) • 3 school subjects you like (in French) • A sentence about your dream city or country (in French) Example: "Je voudrais travailler en France parce que j'adore la culture."	
DTI	**SOCIAL SCIENCE**
Module 4 Design Project: with focus on exploring Creativity and Ideation PDF:- https://cbseacademic.nic.in/web_material/Manuals/DT_Curriculum10.pdf In this link do task 4.0, 4.1 & 4.2 Make file and ppt.	**Project Report: "What Does Development Mean to Me?"** Students write a short report (500–600 words) on their personal understanding of development, considering factors like income, health, education, gender equality, and environment. 2. **Comparison Chart: India vs Another Country** Choose one developed/developing country (like Sri Lanka or the USA). Create a table comparing Per Capita Income, Literacy Rate, Life Expectancy, and Infant Mortality Rate with India. Add a paragraph on which country is more developed and why.
AI	**ELEC & HARD**
Task 1: Poster Making – "AI for a Better Tomorrow" Objective: Develop creative expression about AI's potential. Instructions: • Design a poster on an A4 sheet (handmade or digital) on the topic "AI for a Better Tomorrow". • You may include: o AI in healthcare, education, agriculture, environment, etc. o A catchy slogan o Illustrations and creative layout Task 2: Q1. Write a Python program that takes marks from the user and prints the grade according to the following: • 90 and above → A+	The "Basic Motor Types" Task: Your textbook introduced DC motors and AC motors. Create a simple comparison chart or table with two columns: "DC Motor" and "AC Motor". For each type, write down: What kind of power source it usually uses (battery for DC, wall outlet for AC). Give one example of where you might find this type of motor in everyday life. In very simple terms, what makes it spin (you don't need to go into detail, just a basic idea if your book covered it, like "magnets attracting and repelling" for DC).

- 80 to 89 → A
- 70 to 79 → B
- 60 to 69 → C
- Below 60 → F

Q2. Write a program to check whether a given year is a leap year or not.

Q3. Write a Python program that prints the multiplication table of any number entered by the user (up to 10).

Q4. Write a program to calculate the area of a rectangle.

Q5. Write a program to check if a number is even or odd.

Take Printouts of above programs with output.

DATA SCIENCE	Home science
Financial Literacy Project Track daily expenses over 2 weeks in categories (food, entertainment, etc.) Calculate probability of spending above average in each category Create box-and-whisker plots showing spending distribution Use Excel's basic statistical functions and conditional formatting Recommend budgeting strategies based on findings OR **Climate Data Analysis** Download temperature data for your region for the past 5 years Calculate measures of dispersion (range, variance, standard deviation) Create time-series graphs showing temperature trends Use Python with libraries like Pandas for data organization (provide basic code template) Connect findings to climate change discussions with supporting statistics	1. Design and make a suitable play material that supports the development of children aged birth to 5 years. (non- toxic) 2. Plan a balanced meal to yourself, considering nutritional requirements. **Beauty wellness** 1. DIY Skincare product creation (create any natural skincare product [e.g., face scrub, lip balm, or body lotion.) 2. Make a hygiene and sanitation poster. (In beauty practices including tips for maintaining cleanliness in beauty tools, and workspaces.)
TOURISM	**MUSIC**
TOPIC: "My India Travel Dossier" PART A: Know Your Country – Popular Destinations Choose any ONE Indian state (preferably not your home state). Prepare a 2-page profile including: • State Name, Capital, Languages, Culture • 3 popular tourist destinations (name + photo) • Famous food, festivals, monuments • A short paragraph on why it attracts tourists Format: Use drawings, images, or printouts. Write in your own words. (1–2 pages) PART B: Types of Tourism Identify and describe any 3 types of tourism (with examples): • Cultural Tourism • Adventure Tourism	Project file work: Writing notation of Raga Bhupali &Raga Khamaj Drawing and Labelling of any 1 percussion instrument. Identify and interview any local artist.

• Medical/Wellness Tourism • Ecotourism, etc. Include: • Definition in your own words • One place in India that represents this type • 2 pictures per type PART C: Career in Tourism. Choose any ONE career option in the tourism industry (e.g., Travel Agent, Tour Guide, Hotel Front Office Staff, etc.) and write about: • Job Role • Required Skills • Where they work • Why you would or wouldn't like to do this job PART D: Prepare a Brochure or Pamphlet Make a tourist brochure (hand-drawn or digital) of a city in India. Include: • Name of the place • "Top 5 Things to See or Do" • Images and captions • Any important tips for tourists	
PAINTING	
Theme: "Nature and Culture Through Art" Part 1: Drawing & Painting (Any 2 Activities) Choose any 2 of the following topics and create paintings (A4 or A3 size): 1. Landscape Scene – Draw a natural scene like a village, mountain, or riverside. 2. Festivals of India – Paint a festive celebration like Diwali, Holi, Eid, etc. 3. Folk Art Style – Create artwork in any Indian folk art form (Madhubani, Warli, Gond, etc.). 4. Wildlife Conservation – Make a poster showing the importance of saving animals.	
CLUB	SKILL
MASS MEDIA: Choose any one of the following and submit your project in a research file or digital portfolio (PDF or PPT with evidence and visuals): 1. Media and Gender Representation a. Study how men and women are portrayed in advertisements or TV shows. b. Add 3–5 examples with your opinion on whether it promotes stereotypes or not. 2. Behind the Scenes: How a Newsroom Works a. Research the workflow of a news bulletin – from event reporting to broadcasting. b. Interview a local journalist or find a YouTube tour of a newsroom to include.	EMBROIDERY:- Take 4 – 5 **Hanky** Make different design using - 2 types of flowers - 2 types of leaves - 1 type of border Don't repeat the design. 3D PRINTING:- Draw a design of any animal like (butterfly, fish,owl,turtle) on butter paper.

3. Film and Society: A Social Impact Study

MOVIE MAKING:
CHOOSE A TOPIC
The Case of the Missing Homework
The Value of Empathy
 A Dream Come True
 The Unexpected Guest
SCRIPT WRITING
Write a script of choosen topic , create characters , make dialogues
ARRANGEMENT
Arrange all the require things to make yoiur scene full according to your story . every scene need to be properly explained
KEY POINTS TO REMEMBER WHILE FILMING
- Shutter speed
- Iso
- Aparture
- White balance
- Camera angles
- It should be silence while taking shot
- Video length must be 2:30 to 3 minutes

While shooting every scene you must be aware about these key points to gain quality of your film
MECHATRONICS:
Project Title: Building a Simple Light-Activated Switch Model
The Task:
* Understand the Concept: Research how a Light Dependent Resistor (LDR) works.
Circuit Design (Conceptual): Imagine a simple circuit where an LDR is connected in a way that when light falls on it, it allows a small light (like an LED) to turn ON. Conversely, when it's dark, the LED turns OFF.
Diagram and Explanation: Draw a simple circuit diagram showing the LDR, a power source (like a battery), and an LED connected in a way that demonstrates the light-activated switch concept.
Applications: Think of at least two real-world applications where a light-activated switch is used.