



WORLD WAY INTERNATIONAL SCHOOL
HOLIDAY ASSIGNMENT/PROJECT/RESEARCH
SESSION – 2026-2027
CLASS- 12

SR. NO.				
1	ENGLISH	GRADE 12 ENGLISH PROJECT ◆ PROJECT QUESTION “How do the themes presented in the prescribed texts (Flamingo and Vistas) reflect human values, social issues, and individual experiences? Analyze any one theme in detail with reference to at least two chapters, and establish its relevance in contemporary society.” ◆ HEADINGS FOR THE PROJECT Students must organize their project under the following headings: 1.Cover Page 2.Certificate 3.Acknowledgement 4.Index	Q.2 NOTICE WRITING Question : The water supply will be suspended for eight hours (10 am to 6 pm) on 6th of March for cleaning of the water tank. Write a notice in about 50 words advising the residents to store water for a day. You are Karan Kumar/Karuna Bajaj, Secretary, Janata Group Housing Society, Palam Vihar, Kurnool.	Question 3 LETTER TO AN EDITOR Question: You are Naresh / Nandini of Safdarjung, New Delhi. You are deeply saddened by the attacks on elderly persons who live alone. Write a letter to the editor of ‘The New India News’ making people aware of the authorities to guarantee that such attacks do not occur.

5.Introduction
6.Theme Selection andRationale
7.Chapter Summaries (Selected
Texts)
8.Detailed Theme Analysis
9.Character Analysis
10.Important Incidents / Evidence
from Text
11.Real-Life Connection
12.Personal Response / Opinion
13.Conclusion
14.Bibliography

◆ THEMES (Based on Flamingo
& Vistas)

Students must choose ONE of the
following topics:

1. Loss, Change, and Emotional
Conflict

(The Last Lesson, The Third
Level)

2. Identity and Self-Discovery

(The Rattrap, Memories of
Childhood)

3. Social Injustice and
Discrimination

		(Memories of Childhood, On the Face of It) 4. Power, Authority, and Its Misuse (The Tiger King, The Last Lesson) 5. Courage and Determination (Deep Water, Indigo) 6. Kindness, Compassion, and Transformation (The Rattrap, Going Places) 7. Dreams, Aspirations, and Reality (Going Places, The Third Level) 8. Fear and Psychological Struggle (Deep Water, The Enemy) 9. Tradition versus Modernity (Indigo, Poets and Pancakes) 10. Appearance versus Reality (The Rattrap, The Tiger King) 11. Role of Education in Society		
--	--	---	--	--

		(The Last Lesson, Indigo) 12. Social Evils and Reform (Indigo, Memories of Childhood) 13. Isolation, Loneliness, and Acceptance (On the Face of It, The Third Level) 14. Everyday Heroism (The Enemy, Deep Water) 15. Impact of War on Life (The Last Lesson, The Enemy) 16. Moral Values and Ethical Choices (The Enemy, The Tiger King) 17. Gender Issues and Equality (Memories of Childhood) 18. Influence of Society on Individuals (Going Places, The Rattrap) 19. Optimism versus Pessimism (Deep Water, On the Face of It)		
--	--	---	--	--

20. Freedom and Human Dignity

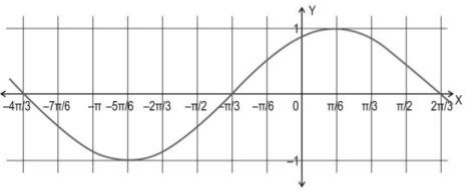
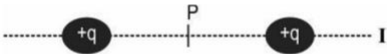
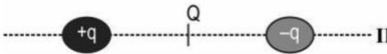
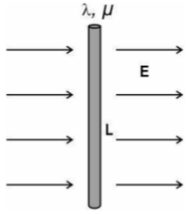
(The Last Lesson, Indigo)

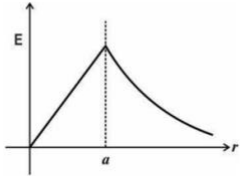
◆ GENERAL INSTRUCTIONS

- The project must be handwritten on A4 sheets.
- Maintain neatness, proper margins, and clear handwriting.
- The project should be 15–20 pages long.
- Use headings and subheadings to organize content properly.
- Include relevant examples from the text to support your analysis.
- Add creative elements such as pictures, quotes, or diagrams (optional).
- Ensure correct grammar and formal language throughout.
- The theme must be clearly explained and connected to real life.
- Avoid copying directly; the work should be original and well-expressed.
- Submit the project on time as per school guidelines.

		Be prepared for a Viva Voce based on your project.		
2	CHEMISTRY	Case Study -1 The properties of the solutions which depend only on the number of solute particles but not on the nature of the solute are called colligative properties. Relative lowering in vapour pressure is also an example of colligative properties For an experiment, sugar solution is prepared for which lowering in vapour pressure was found to be 0.061 mm of Hg. (Vapour pressure of water at 20°C is 17.5 mm of Hg). (i) Relative lowering of vapour pressure for the given solution is	Case Study-2 All chemical reactions involve interaction of atoms and molecules. A large number of atoms/molecules are present in a few gram of any chemical compound varying with their atomic/molecular masses. To handle such large number conveniently, the mole concept was introduced. All electrochemical cell reactions are also based on mole concept. For example, a 4.0 molar aqueous solution of NaCl is prepared and 500 mL of this solution is electrolysed. This leads to the evolution of chlorine gas at one of the electrode. The amount of products formed can be calculated by using mole concept.	Case Study-3 When a protein in its native form, is subjected to physical changes like change in temperature or chemical changes like change in pH, the hydrogen bonds are disturbed. Due to this, globules unfold and helix get uncoiled and protein loses its biological activity. This is called denaturation of protein. The denaturation causes change in secondary and tertiary structures but primary structures remains intact. (i) Mark the wrong statement about denaturation of proteins. (a) The primary structure of the protein does not change. (b) Globular proteins are converted into fibrous proteins.

	(a) 0.00348 (b) 0.061 (c) 0.122 (d) 1.75 (ii) The vapour pressure (mm of Hg) of solution will be (a) 17.5 (b) 0.61 (c) 17.439 (d) 0.00348 (iii) Mole fraction of sugar in the solution is (a) 0.00348 (b) 0.9965 (c) 0.061 (d) 1.75	(i) The total number of moles of chlorine gas evolved is (a) 0.5 (b) 1.0 (c) 1.5 (d) 1.9 (ii) If cathode is a Hg electrode, then the maximum weight of amalgam formed from this solution is (a) 300g (b) 446 g (c) 396 g (d) 256 g or The total charge (coulomb) required for complete electrolysis is (a) 186000 (b) 24125 (c) 48296 (d) 193000	(c) Fibrous proteins are converted into globular proteins. (d) The biological activity of the protein is destroyed. (ii) Which statement(s) of protein remain(s) intact during denaturation process? (a) Both secondary and tertiary structures (b) primary structure only (c) secondary structure only (d) tertiary structure Biological Sciences (iii) α-helix and β-pleated structures of proteins are classified as (a) primary structure (b) secondary structures (c) tertiary structure (d) quaternary structure Complete the File and project and solve all numerical of unit 1&2
--	--	--	---

3	MATHS	Complete trigonometric cycle and graphs of trigonometric ratios	Check whether the following statement is true or false. If $u = e^{\sin^{-1}\theta}$ and $v = e^{-\cos^{-1}\theta}$, then $\frac{du}{dv}$ is a constant for any value of θ. Show your work with valid reason. If $\frac{x^m}{y^n} = (xy)^{(m-n)}$, ($y \neq 0$), find $\frac{dy}{dx}$. Show your work. Shown below is a portion of the graph for $\sin(x + a)$, where $a \in \mathbb{R}$ and $a > 0$.  What should the domain of the function be restricted to such that the function is invertible? Give valid reasons for your answer.	Do all the problems of Ncert exemplar in chapter 2 nd and 5 th
4	PHYSICS	PRACTICAL FILE WORK 1. TO FIND THE RESISTANCE OF A GIVEN WIRE USING METER BRIDGE AND HENCE DETERMINE THE RESISTIVITY OF A MATERIAL 2. TO VERIFY THE LAWS OF COMBINATION (SERIES) OF RESISTANCE USING A METRE BRIDGE.	CASE STUDY 1 (a) If electric field strength at a point is zero at a given point, then what can you say about the electric potential at that point? Explain. (b) In the two instances below, state whether electric field intensity and electric potential are zero or non-zero at the mid-point joining the two-point charges.   A thin rod of length L of the uniform mass density of μ kg/m and linear charge density λ C/m is initially at rest. A uniform electric field E is applied in the direction perpendicular to the length of the rod. The rod begins to move in the direction of the applied electric field.  Determine the speed of the rod after it travels through 1 m of distance. Ignore all external forces except the electrostatic forces.	Do all the ncert problem in chapter 1

			Study the graph between electric field intensity E versus the distance r.  (a) Describe the nature of variation of electric field intensity between $r = 0$ and $r \leq a$. (b) Describe the nature of variation of electric field intensity for $r > a$. (c) Give an example of the body of charge distribution that can exhibit the above studied electric field distribution.	
5	BIOLOGY	Critical thinking- A plant species is capable of both self-pollination and cross-pollination. However, cross-pollinated plants show better growth. Questions: 1.Why does cross-pollination result in better growth compared to self-pollination? 2.What is genetic variation and how is it related to this observation? 3.What conditions favor self-pollination? 4.Give advantages and disadvantages of both types.	Situation based- During pregnancy, a doctor explains the importance of the placenta to the mother. Questions: 1.What is the role of the placenta in fetal development? 2.How does it help in exchange of nutrients and gases? 3.What could happen if the placenta does not function properly? 4.Why is it called a temporary organ?	Logical reasoning- A country is facing rapid population growth, leading to pressure on resources. Questions: 1.How is reproductive health linked to population control? 2.Why is family planning important in such situations? 3.Suggest government measures to control population growth. 4.How does education influence reproductive choices?
6	PSYCHOLOGY	Case Study (Understanding Behaviour) Activity: Observe any one person (family member, friend, or neighbour) for 3–5 days and prepare a short case study. Include: Basic details (age, gender,		

		occupation — no name required) Daily routine Personality traits observed Emotional responses in different situations Coping strategies used during stress Your psychological interpretation (based on theories learned) Length: 3–4 pages Objective: To develop observation and analytical skills.		
--	--	---	--	--

7	Physical Education	Write these practicals neatly in the record file : 1. SAI KHELO INDIA FITNESS TEST 2. YOGA 3. ONE IOA RECOGNISED GAME		
---	--------------------	--	--	--