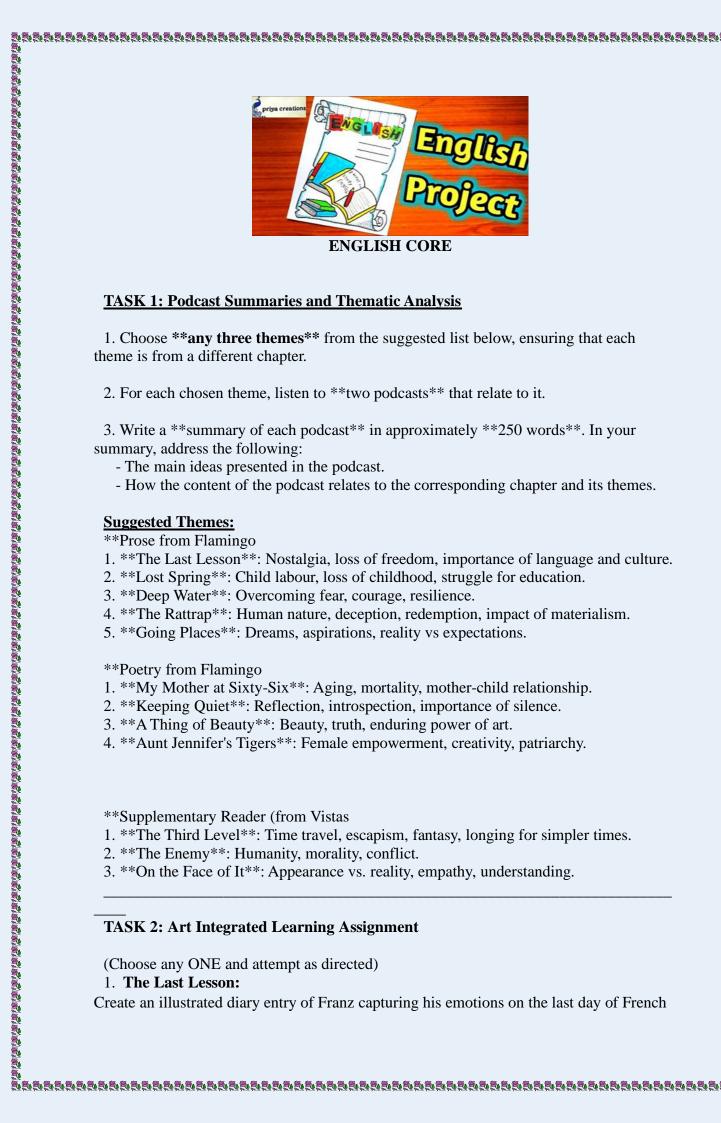
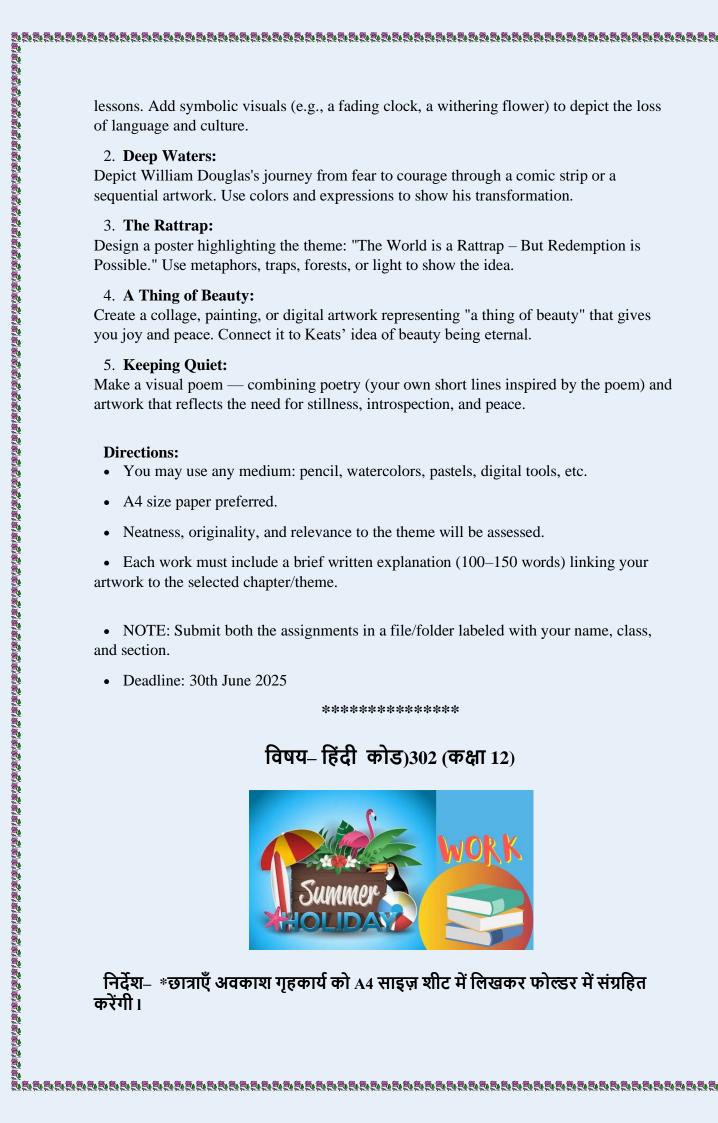
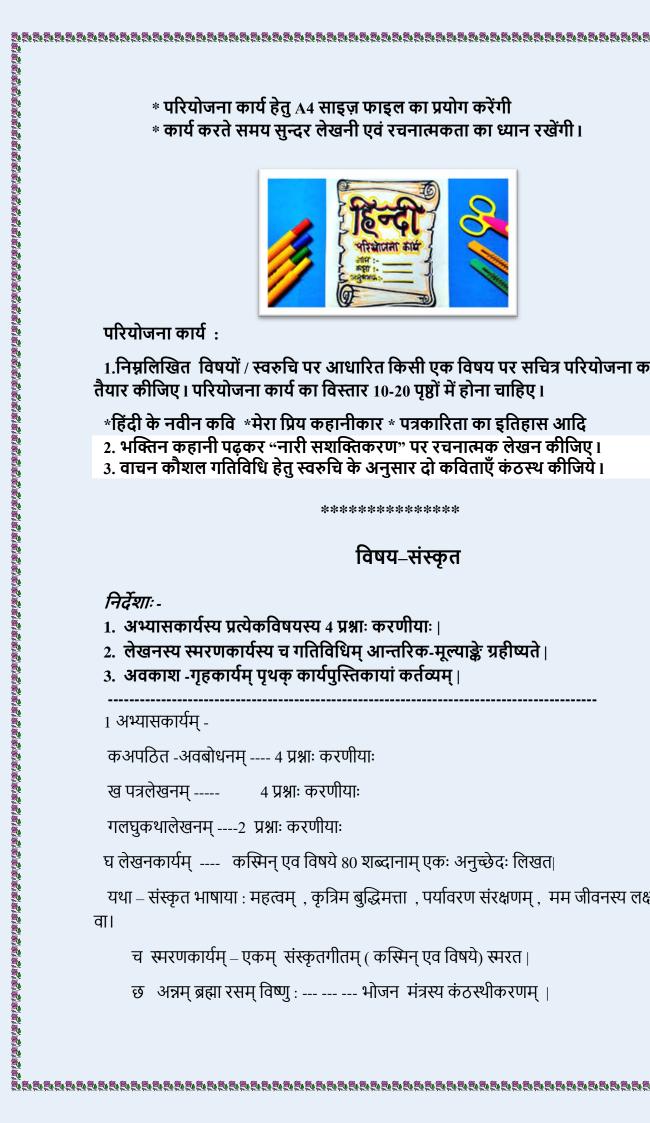


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- 1.निम्नलिखित विषयों / स्वरुचि पर आधारित किसी एक विषय पर सचित्र परियोजना कार्य

यथा – संस्कृत भाषाया : महत्वम् , कृत्रिम बुद्धिमत्ता , पर्यावरण संरक्षणम् , मम जीवनस्य लक्ष्यम्

SUBJECT: BIOLOGY

1. Instructions: Write the Answers to the following questions in your biology notebook. Draw the diagrams as required.

Q.1. Differentiate between self-pollination and cross-pollination. State four devices in flowers that prevent self-pollination.

Q.2. What is double fertilization? Explain the process with the help of a labeled diagram.

Q.3. What are the characteristics of wind-pollinated flowers? Give one example.

Q.4. Explain the process of megasporogenesis in flowering plants.

Q.5. What is apomixis? How is it different from parthenocarpy? Mention one application of apomixis.

Q.6. What is microsporogenesis? Describe the process briefly.

Q.7. Describe the structure of a mature pollen grain. Mention any two functions of the pollen wall.

Q.8. Explain the significance of pollen viability. Mention any one factor that affects it.

Q.9. Describe the structure and function of the seminiferous tubules in the human testis.

Q.10. Explain the role of FSH and LH in the menstrual cycle.

Q.11. Differentiate between spermatogenesis and oogenesis (three points).

Q.12. Describe the events of the luteal phase in the menstrual cycle.

Q.13. List the changes that take place in the ovary and uterus during the follicular phase of the menstrual cycle.

Q.14. Describe the structure and function of the placenta. Mention any two hormones secreted by it.

Q.15. What are the changes in the sperm head during fertilization? How does it help in zygote formation?

2. Investigatory Project Work:

As part of your academic enrichment, you are required to complete an Investigatory or Experimental Project during the holidays. Please select a topic after discussing it with your subject teacher. This project should be based on research, observation, and experimentation where possible.

Steps to be followed:

1. Selection of Topic — Choose a relevant and interesting topic in consultation with your teacher.

2. Setting Objectives — Clearly define what you aim to study or prove through the project.

3. Project Design — Plan

4. Planning the Investigation – Gather the required materials and determine the procedure.

5. Execution – Conduct the investigation or experiment.
6. Documentation – Record your observations and results; present them in a clear and organized manner.

Suggested Format for the Project Report:

1. Title of the Project
2. Objectives
3. Materials Required
4. Procedure/Methodology
5. Results
6. Analysis and Interpretation
7. Discussion – Reflect on the findings, challenges faced, and learnings.
8. Conclusion – Summarize the key outcomes.
9. References Mention all sources consulted (books, websites, articles, etc.).
Be original in your work and ensure all sources are acknowledged appropriately. The completed project will be submitted and assessed after the holidays.

Happy Exploring!

Instructions:
1.The Holiday home work is to be done in Biotechnology copies.
2. It should be submitted on 1<sup>th</sup> July 2025
1. Prepare an investigatory or experimental project on a topic selected from the CBSE Class XI or XII. Biotechnology book

The investigatory project should contain the following headings:

(a) Title Page
(b) Acknowledgement Certificate
(c) Index or Table of Content (d) Introduction of the Topic
(d) Procedure
(d) Procedure
(f) Procedure
(f) Procedure
(g) Procedure
(h) Procedure
(g) Procedure
(h) Procedure
(h) Procedure

Following are the list of projects suggested by CBSE. You have to select a topic from the list and prepare a write up for the same. You can choose any other topic related to XII physics after discussion with the subject teacher. Write up should have —

a) Aim,
b) Principle/Theory
c) Procedure,
d) Diagram
e) Observation table,
f) Required result with steps of calculations must be mentioned.

You can choose any other topic for your project but it should be Investigatory and related to XII syllabus. You can refer link http://www.neort.nic.in/exemplar/labmanuals.html
and http://www.neort.nic.in/exemplar/labmanua

- 2. Last date of submission of home work is 29th June 2025

  Practical records to be completed:

  A) Write the analysis of the given salts (Preliminary examinations to be written once for each salt, first you need to write the acidic radical followed by basic radical in continuation. No need to write the preliminary examinations again. This write up is available in XI class practical records).

  1. Lead Nitrate

  2. Ammonium Sulphate

  3. Aluminum Chloride

  4. Strontium Acetate.

  5. Magnesium Bromide

  6. Barium Iodide.

  B) Identification of the functional groups: Alcohols, Acids, Aldehydes, Ketones and Phenols. Write in your practical records.

  ii) Titration of F.A.S solution against KMnO4

  C) Investigatory projects:

  You need to select one topic of your choice and send a write up on it for approval by your subject teacher. Two to three students can select one topic and give a write up for approval.

  You can either chose a topic from the list below or choose any other project topic of your choice but please discuss the selected topic with your subject teacher before working on it.

  1. Study of the quantity of case in in different samples of milk.

  2. Preparation of Soya bean milk.

  3. Analysis of honey.

  4. Analysis of honey.

  4. Analysis of of honey.

  5. Peparation of Rayon thread from filter papers.

  6. Study the presence of insecticides and pesticides in fruits and vegetables.

  7. Extraction of calfeine from tea leaves.

  8. Analysis of vegetables and fruit juice.

  D) Numericals of chapter solutions, Electro chemistry to be solved in your home-work note book.

  SUBJECT- HOME SCIENCE

  Y Project Work-Following are the fist of projects. Complete the project as discussed and assigned in the class

  1. Study of an integrated community based, nutrition/health programme being implemented in own area, with reference to a) Programme objectives b) Focal Group/Beneficiaries c) Modalities of implementation

D) Numericals of chapter solutions, Electro chemistry to be solved in your home-work note boo
---

- e) Bengaluru

  3. Leading Producing states of the following crops

  a) Rice
  b) Wheat
  c) Cotton
  d) Jue
  e) Sugarcane
  1) Tea
  g) Coffee

  4. Mines of India

  1. Iron-ore mines: Mayurbhanj, Bailadila, Ratnagiri, Bellary
  2. Mangnese mines: Balaghat, Shimoga
  3. Copper Mines: Hazaribagh, Singhbhum, Rhetari
  4. Bunzik Mines-Katni, Blabsur, Koraput
  5. Coal Mines-Hazin, Blabsur, Koraput
  6. Ori Refineries-Mathura, Jannagar, Barauni

  5. Jaternational Trade
  Major sea ports:
  1. Kandla
  2. Mumbai
  3. Marmagao
  4. Kochi
  5. Mangalore
  6. Tuticorin
  7. Chennai
  7. Chennai
  8. Vishakhapatmam
  9. Paradwip
  10. Haldia

  International Air ports of India
  1. Ahmedabad
  2. Mumbai
  3. Bengalauru
  4. Chennai
  5. Kokata
  6. Giawahati
  7. Delhii
  8. Anriisar
  9. Thiruvaanuthpuram
  10. Hydrabad.
  Book: Pundamentals of Human Geography
  International Seaports of the World
  Europe: North Cape, London, Hamburg

- Project Work:

  1. To shortlist a relevant topic for research.

  2. To collect adequate information available on the topic for Introduction. (Not to exceed more than 5-6 pages)

  3. To prepare the Research Design for the topic (Objectives, Hypothesis, Research Method and tool for data collection, Sample Site and Size)

  4. If using Survey, prepare the Questionnaire / Interview Schedule.

  5. If using Case Study (Comparison) then identify 5 cases to be studied in depth. All matter to be collected in detail for the same.

  6. If using Observation- make a list of things to be observed (Participant or Non- Participant) in the research

  Send the above at the email IDs of respective subject teachers for approval

  7. Once approved then collect data as per instruction

  Chapter 1: Sociology and Society

  1. To make notes as per instructions in class and answer the questions as given

  2. Prepare 1 marker statement on the chapter in your register

  \*\*SUBJECT- PHYSICAL EDUCATION\*\*

  \*\*RESOURCE MATERIAL-\*\*Any Physical Education reference lab manual (Saraswati Publication) which you can easily get.

  HOLIDAY HOME WORK ASSIGNMENT

  \*\*Make a Record file:

  Any one Games' Sports of your choice out of the list-Baskethall, Kho-Kho, Volleyhall, Hockey, Cricket. Tennis, Athletics.

  -History of the game

  1.abeled diagram of field and equipments

  -Rules and regulation of the game

  1-tundamental skill of the game

  1-tundamental skill of the game

  -Pundamental skill of the game

  -Pundamental skill of the game

  -Any five Personalities

  -Venue and Tournament

	SUBJECT- INFORMATICS PRACTICE
1 Identify th	ne Master tables amongst the two tables given below-
•	table using appropriate constraints for referential integrity.
customer_id	cust_name   city   grade   salesman_id
	-+
3002   N	fick Rimando   New York   100   5001
3007	Brad Davis   New York   200   5001
3005	Graham Zusi   California   200   5002
3008	Julian Green   London   300   5002
3004	Fabian Johnson   Paris   300   5006
3009	Geoff Cameron   Berlin   100   5003
Sample table	: salesman
•	d name city commission
	+
5001	James Hoog   New York   0.15
5002	Nail Knite   Paris   0.13
5005	Pit Alex   London   0.11
5006	Mc Lyon   Paris   0.14
5007	Paul Adam   Rome   0.13
5003	Lauson Hen   San Jose   0.12
Write sql state	ements against the following queries-
i. Display cu	st name, grade and salesman_id and sales_man name from the above tables.
ii. Display cu	st_name, grade and salesman_id and sales_man name of all salesman who belong to
new york from	the above tables.
	st_name, grade and salesman_id and sales_man name of all salesman who belong to
•	scending order of commossionfrom the above tables.
	te between the following with examples-
	OIN, EQUI JOIN and NATURAL JOIN
_	N AND NON EQUI JOIN
• LEFT ANI	O RIGHT JOIN
	***********

	Salesman_1d	name	city   cor	nmission
_		+	+	+
	5001	James Hoog	Now Vork	0.15
	5001	Nail Knite	Paris	0.13
	5005		London	0.13
	5006	Mc Lyon	Paris	0.14
	5007	Paul Adam	Rome	0.13
	5003	Lauson Hen	San Jose	0.12