

MGD GIRLS' SCHOOL, JAIPUR

HOLIDAY ASSIGNMENT

CLASS – 11

SESSION 2025-26

Dear Students,

As summer break begins, take this time to relax, reflect, and recharge. Alongside rest and recreation, let this be an opportunity to grow intellectually, creatively, and personally.

Your holiday homework is designed to enrich your learning beyond the classroom. Approach it with sincerity and originality. Ensure your work is neat, well-organized, and aligns with the subject-specific guidelines.

In addition, we encourage you to:

- **Read newspapers to stay informed about current affairs.**
- **Improve handwriting by writing a page in English and Hindi daily.**
- **Read at least two meaningful books and create a personal word journal.**
- **Be proactive and responsible—support your family and community in small but meaningful ways.**

**"Let summer light your inner flame,
Seek new knowledge, rise to fame.
Pause, reflect, explore, and read—
This season, plant your learning seed."**

Wishing you a productive, joyful, and refreshing holiday!

INDEX

1. ENGLISH
2. HINDI
3. SANSKRIT
4. PHYSICS
5. CHEMISTRY
6. HOME SCIENCE
7. BIOTECHNOLOGY
8. BIOLOGY
9. MATH
10. APPLIED MATH
11. BUSINESS STUDIES
12. ACCOUNTANCY
13. ECONOMICS
14. ENTREPRENEURSHIP
15. COMPUTER SCIENCE
16. INFORMATICS PRACTICES
17. HISTORY
18. GEOGRAPHY
19. SOCIOLOGY
20. POLITICAL SCIENCE
21. PSYCHOLOGY
22. PHYSICAL EDUCATION
23. YOGA
24. COMMERCIAL ART
25. PAINTING
26. MUSIC
27. DANCE

SUMMER HOLIDAY ACTIVITIES



TASK 1: Podcast Summaries and Thematic Analysis

1. Choose ****any three themes**** from the suggested list below, ensuring that each theme is from a different chapter.
2. For each chosen theme, listen to ****two podcasts**** that relate to it.
3. Write a ****summary of each podcast**** in approximately ****250 words****. In your summary, address the following:
 - The main ideas presented in the podcast.
 - How the content of the podcast relates to the corresponding chapter and its themes.

Suggested Themes:

****Prose from Hornbill**

1. ****The Portrait of a Lady –**
Theme: Grandmother-grandson relationship, simplicity, spirituality, and nostalgia.
2. **We're Not Afraid to Die... if We Can All Be Together –**
Theme: Courage, perseverance, family unity, human willpower against nature.
3. **Discovering Tut: the Saga Continues –**
Theme: Modern science and technology in uncovering history, mystery of death, respect for ancient culture.
4. **The Adventure –**
Theme: Alternate history, scientific curiosity, the blending of imagination and reality.
5. **Silk Road –**
Theme: Journey and adventure, cultural diversity, personal growth through exploration.

Poems

1. **A Photograph –**
Theme: Memories, loss, the passage of time, emotional attachment.
 2. **The Laburnum Top –**
Theme: Nature's cycles, life and death, interdependence between living beings.
 3. **The Voice of the Rain –**
Theme: Nature's beauty and power, the eternal cycle of life, giving back to the earth.
 4. **Childhood –**
Theme: Loss of innocence, transition from childhood to adulthood, realization of harsh realities.
 5. **Father to Son –**
Theme: Generation gap, communication barriers between parents and children, longing for understanding.
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****Supplementary Reader**

1. 1. The Summer of the Beautiful White Horse –
Theme: Honesty, innocence, trust, and childhood adventures.
2. The Address –
Theme: Loss, memory, war's impact on personal relationships, and the search for identity.
3. Mother's Day –
Theme: Gender roles, domestic oppression, and the demand for respect and equality in family life.
4. Birth –
Theme: Hope, the miracle of life, the value of medical skill and perseverance.
5. The Tale of Melon City –
Theme: Irony, satire on monarchy and governance, the foolishness of blind justice.

TASK 2: Art Integrated Learning Assignment

(Choose any ONE and attempt as directed)

1. Poetry Poster

Pick a poem from your syllabus (like A Photograph by Shirley Toulson).

Create a poster: draw or paint an illustration that reflects the poem's theme (like memory, loss, time).

Include small quotes from the poem.

Add a short reflection (100-150 words) explaining your artwork.

2. Character Sketch Collage

Pick a major character from a story/poem.

Make a collage using magazine cutouts, paintings, symbols, and words that describe their personality.

Write a character analysis (short paragraph- 80-100 words).

3. Thematic Art Piece

Take a theme from English lessons (like nostalgia, childhood, growing up, identity).

Create any form of art (painting, sculpture, poster) that expresses that theme.

Directions:

- You may use any medium: pencil, watercolors, pastels, digital tools, etc.
 - A4 size paper preferred.
 - Neatness, originality, and relevance to the theme will be assessed.
 - Each work must include a brief written explanation (100–150 words) linking your artwork to the selected chapter/theme.
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- NOTE: Submit both the assignments in a file/folder labeled with your name, class, and section.
 - Deadline: 30th June 2025

HINDI



निर्देश- *छात्राएँ अवकाश गृहकार्य को A4 साइज़ शीट में लिखकर फोल्डर में संग्रहित करेंगी ।

* परियोजना कार्य हेतु A4 साइज़ फाइल का प्रयोग करेंगी

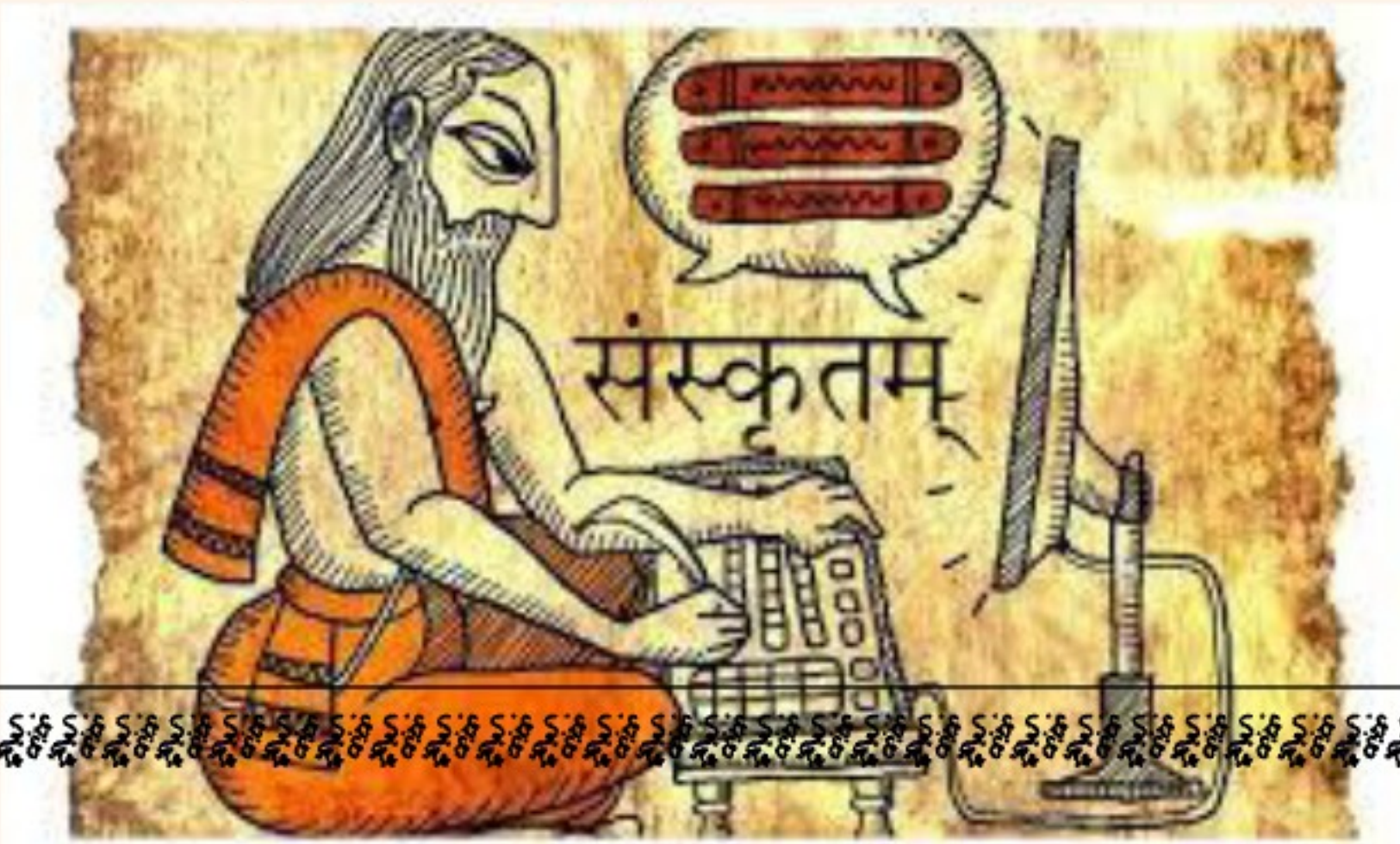
*कार्य करते समय सुन्दर लेखनी एवं रचनात्मकता का ध्यान रखेंगी ।

परियोजना कार्य :

निम्नलिखित विषयों / स्वरुचि पर आधारित किसी एक विषय पर सचित्र परियोजना कार्य तैयार कीजिए । परियोजना कार्य का विस्तार 10-20 पृष्ठों में होना चाहिए ।

- 1.*हिंदी साहित्य में प्रकृति” “मीडिया” “पत्रकारिता” “प्रिय कहानीकार* *प्रिय कवि” आदि
2. किसी भी कहानीकार की कहानी का सचित्र नाट्य रूपांतर कीजिए ।
3. वाचन कौशल गतिविधि हेतु स्वरुचि के अनुसार दो कविताएँ कंठस्थ कीजिये ।

SANSKRIT



निर्देशाः -

1. अभ्यासकार्यस्य प्रत्येकविषयस्य 4 प्रश्नाः करणीयाः ।
2. लेखनस्य स्मरणकार्यस्य च गतिविधिम् आन्तरिक-मूल्याङ्के ग्रहीष्यते ।
- 3 अवकाश -गृहकार्यम् पृथक् कार्यपुस्तिकायां कर्तव्यम् ।

1 अभ्यासकार्यम् -

क अपठित -अवबोधनम् ---- 4 प्रश्नाः करणीयाः

ख पत्रलेखनम् -----4 प्रश्नाः करणीयाः

ग लघुकथालेखनम् ----2 प्रश्नाः करणीयाः

घ लेखनकार्यम् - कस्मिन् एव विषये 80 शब्दानाम् एकः अनुच्छेदः लिखत ।

यथा - कृत्रिम बुद्धिमत्ता , पर्यावरण संरक्षणम् , यात्रावर्णनम् , मम जीवनस्य लक्ष्यम् वा ।

च स्मरणकार्यम् - एकम् संस्कृतगीतम् (कस्मिन् एव विषये) स्मरत ।

छ अन्नम् ब्रह्मा रसम् विष्णु : --- --- --- भोजन मंत्रस्य कंठस्थीकरणम् ।

Elink-www.studiestoday.com



PHYSICS

- A. Revise the basic mathematical tools, graphs and Dimensional analysis.
- B. Practicing the derivation of proving the Equations of motion by Calculus Method.

B. Write down the following activities given below, neatly in the Activity file:

1. To study the variation in range of a projectile with angle of projectile.
2. To study the conservation of energy of a ball rolling down an inclined plane (using a double inclined plane)
3. To make a paper scale of given least count ,eg .0.2 cm, 0.5cm.

Instructions:

The activity should specifically consist of the following details:

1. Aim of the activity 2

Materials required

3. Diagram 4. Theory

- 5.Observation
- 6.Calculation and graph(If required)
- 7.Result
- 8.Precautions
- 9.Sources of error

For reference: www.learncbse.in
Cbse lab manual

CHEMISTRY

GENERAL INSTRUCTIONS:

1. Please submit the Homework after the school reopens.

Practical records to be completed:

A) Write the analysis of the given Acid Radicals as per instructions given in the classroom

1. Carbonate
- 2 Sulphide
- 3 Sulphite
- 4 Nitrite
- 5 Acetate
- 6 Oxalic Acid
- 7 Chloride
- 8 Bromide
- 9 Iodide
- 10 Nitrate
- 11 Sulphate
- 12 Phosphate

B) Read the following Chapters And solve all the in-text Question and exercise problems in the NCERT book.

1. Basic concepts of Chemistry
2. Structure of Atom

HOME SCIENCE



- Make a chart or poster on the topic food and nutrition on full size chart paper.
- Write two recipes that are rich in various nutrients , with millets as the major ingredient .

BIOTECHNOLOGY

Instructions:

1. The Holiday home work is to be done in Biotechnology copies .
2. It should be submitted on 1st July 2025

Q1. Enumerate the technologies applied in biotechnology with their application.

Q2. Highlight the application of biotechnology in sectors listed below by associating an example from a recent research/innovation

- a. Health Industry
- b. Agriculture Industry
- c. Chemical Industry
- d. Cleaning Industry
- e. Textile Industry
- f. Pulp and Paper Industry

Q3. Draw a well labelled diagram of Plant and Animal Cell

Q4. Fluid Mosaic model for cell membrane is the most accepted model. Justify giving reason and draw a well labelled diagram.

BIOLOGY

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

1. Differentiate between prokaryotic and eukaryotic cells. (Any three points)
2. What are ribosomes? Describe their structure and function.
3. Write any three differences between rough endoplasmic reticulum (RER) and smooth endoplasmic reticulum (SER).
4. What is the role of the Golgi apparatus in a cell? Name two cell activities involving it.
5. Describe the structure and functions of mitochondria.
6. Draw a labeled diagram of a plant cell and mention three differences from an animal cell.
7. Explain the fluid mosaic model of the plasma membrane. Name the major components.
8. What are plastids? Name the three types and mention one function of each.
9. List the phases of the cell cycle. Describe interphase in brief.
10. Differentiate between mitosis and meiosis.
11. Describe the events of metaphase during mitosis.
12. What are homologous chromosomes? How do they behave during meiosis-I?
13. Describe the ultrastructure of cilia or flagella. Explain the 9+2 arrangement of microtubules.
14. Write the main events of prophase I in meiosis. Why is this phase considered important?
15. Draw a labelled diagram of anaphase of mitosis in an animal cell.



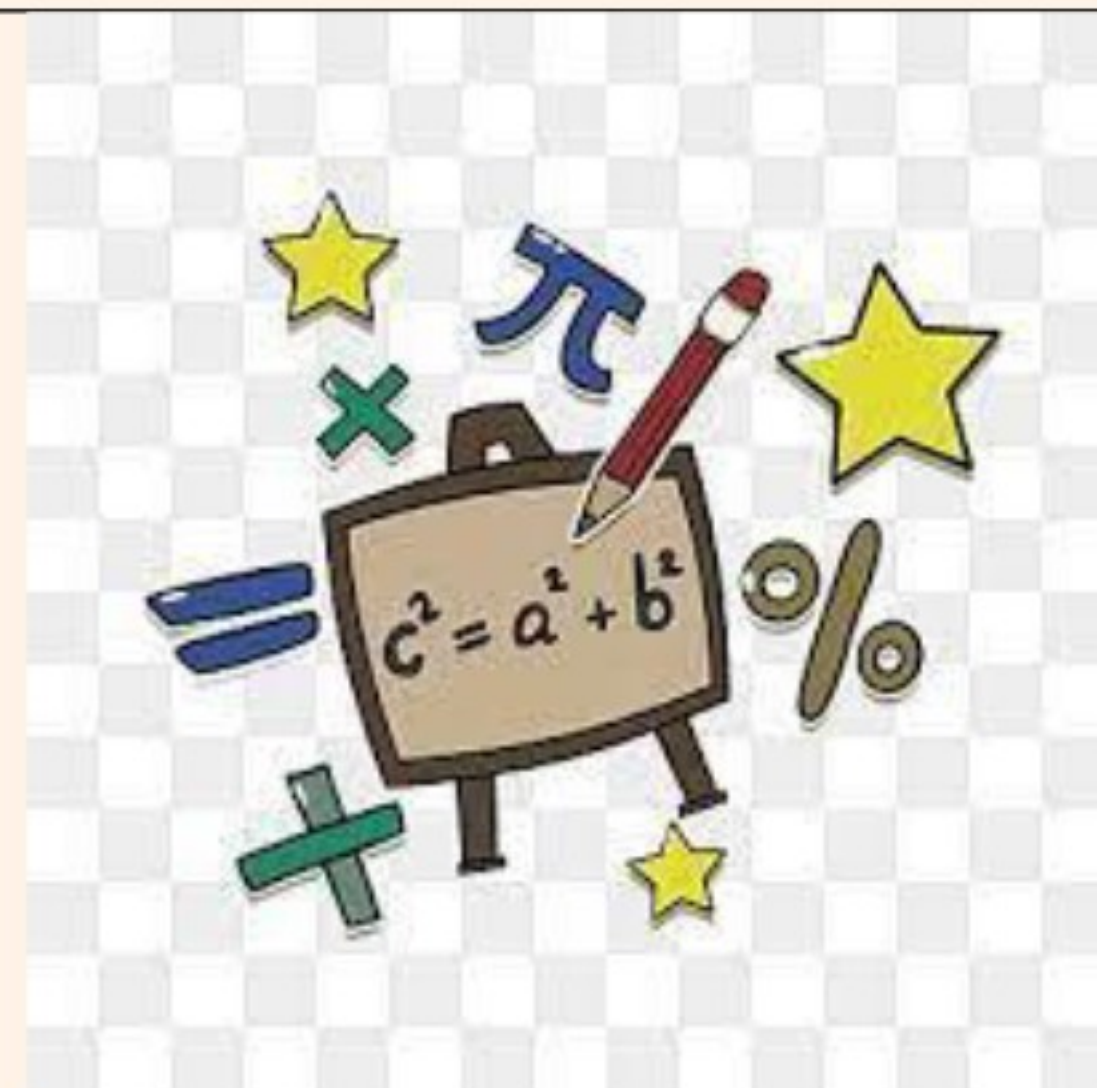
II. Instructions

- Note the following experiments in the biology practical file.
 - While writing the experiment, the diagrams should be drawn on the left side blank sheet and the written matter should be on the ruled sheet(right side).
1. Study of osmosis by potato osmometer.
 2. Study of plasmolysis in epidermal peels (e.g. Rhoeo/lily leaves or flashy scale leaves of onion bulb).
 3. Specimens/slides/models and identification with reasons – Bacteria, Oscillatoria, Spirogyra, Rhizopus, mushroom, yeast, liverwort, moss, fern, pine, one monocotyledonous plant, one dicotyledonous plant and one lichen.
 4. Virtual specimens/slides/models and identifying features of – Amoeba, Hydra, liver fluke, Ascaris, leech, earthworm, prawn, silkworm, honeybee, snail, starfish, shark, rohu, frog, lizard, pigeon and rabbit.

MATHEMATICS CORE/ APPLIED MATH

Instructions

1. Do the questions in the notebook you've been doing as the home assignments till now.
2. Do corrections of all home assignments, if possible redo them properly.
3. For any queries, contact your subject teacher.
4. Revise all the syllabus covered till now.



1. Frame 10 objective type questions with answers (not from the textbook) from each of the following chapters-

- (i) Relations and Functions
- (ii) Permutations and Combinations
- (iii) Sets

This worksheet has to be printed (questions can be MCQs, fill in the blanks etc.)

2. Do Exercise 15.1 of the chapter Probability from the textbook (based on concepts of class X)
3. Do Miscellaneous exercise and examples of the three chapters mentioned above.
4. Learn these trigonometric formulae.

- | | |
|------------------|-----------------------|
| 1. $\sin(A + B)$ | 12. $\sin 3x$ |
| 2. $\sin(A - B)$ | 13. $\cos 3x$ |
| 3. $\cos(A + B)$ | 14. $\tan 3x$ |
| 4. $\cos(A - B)$ | 15. $\sin A + \sin B$ |
| 5. $\tan(A + B)$ | 16. $\cos A + \cos B$ |
| 6. $\tan(A - B)$ | 17. $\sin A - \sin B$ |
| 7. $\cot(A + B)$ | 18. $\cos A - \cos B$ |
| 8. $\cot(A - B)$ | 19. $2\cos x \cos y$ |
| 9. $\cos 2x$ | 20. $-2\sin x \sin y$ |
| 10. $\sin 2x$ | 21. $2\sin x \cos y$ |
| 11. $\tan 2x$ | 22. $2\cos x \sin y$ |

BUSINESS STUDIES

1. Prepare a rapsong/crossword/ nukkad natak anyone from any topic from chapter 1 and 9.
2. Complete the worksheets No.1 ,2, and (.Take the printout ,complete it, and submit it on 30th June 2025)

ACCOUNTANCY



1. Complete the worksheets based on ch 2,6 and 8 (solving the questions) and submit the same on 30th June 2025

ECONOMICS

1. Revise Chapter 1 of Microeconomics and Chapter 1 & 2 of Statistics.
2. Prepare a Questionnaire for Consumer Survey based on the guidelines as discussed in the class and submit it on 30th June 2025.

ENTREPRENEURSHIP



- 1.Revise Chapters 1 and 2 thoroughly.
- 2.Develop a Questionnaire comprising of not less than 25 questions based on the Business Ideas as approved in the class.

COMPUTER SCIENCE

1. *"Python is an interpreted high level language"*.What does it mean to you?
2. In how many different ways, can you work in Python?
3. What is a cross platform software?
4. Which of the following are not valid strings in Python?
 - a. "Hello"
 - b. 'Hello'
 - c. "Hello"
 - d. 'Hello'
 - e.[Hello]
5. What is the output of the following code?

```
num1 = "5"
```



```
num2 = 3
result = num1 * num2
print (result)
```

6. Python programming language got its name from which show.
7. Program to obtain length and breadth of a rectangle and calculate its area.
8. Program to input a value in kilometers and convert it into miles.(1 km=0.621371 miles)
9. What factors guide the choice of identifiers in programs?
10. Program to swap two numbers using a third variable.
11. What is the error in following code:-a, b= 4?
12. Predict the output :-
13. a, b, c=2,3,4
a, b, c=a*a ,a*b, a*c
print (a, b, c)
14. Program to input a number and print its first five multiples.
15. What are operators? What is their function ?Give examples of some unary and binary operators.

INFORMATICS PRACTICES

Do Q1 in your Practical files and Q2 in your regular IP registers



Write Mysql Statements to-

- To create a database and table named DOCTOR with DCODE, DNAME, DEPT, DOJ AND GRADE as attributes where the doctor id is the primary key.
- To insert the details of at least 5 DOCTORS in the above table.
- To display the structure of the table.
- To add a column CONSULTATION_FEE
- To display DCODE, DNAME and DOJ of those students who joined between '2015- 01-01' and '2023-12-31'.
- Learn and write about the following terms with suitable examples-
 - i. Primary Key
 - ii. Candidate Key
 - iii. Alternate Key
 - iv. Composite Key
 - v. DBMS
 - vi. RDBMS
 - vii. Relation
 - viii. Cardinality
 - ix. Degree
 - x. Data Integrity

ARTIFICIAL INTELLIGENCE

1. A list of real-world applications are provided to you. Specify them into the three AI domains: Data Science, Natural Language Processing (NLP), and computer vision.
 - i. Gesture recognition for human- computer interaction
 - ii. Chatbots for customer service
 - iii. Spam email detection
 - iv. Autonomous drones for surveillance
 - v. Google Translate
 - vi. Fraud detection in financial transactions
 - vii. Augmented reality application (e.g., Snapchat filters)
 - viii. Sports analytic for performance optimisation
 - ix. Object detection in autonomous vehicles
 - x. Recommendation systems for e-commerce platforms
 - xi. Customer segmentation for targeted marketing
 - xii. Text summarisation for news articles
 - xiii. Automated subtitles for videos
 - xiv. Medical image diagnosis
 - xv. Stock prediction
2. Explain supervised learning. Also, name two algorithms that use supervised learning and two real-world applications of supervised learning.
3. Explain the different types of machine learning with examples. List any four applications of machine learning.



HISTORY

1. PROJECT WORK-

Shortlist few topics after going through the History syllabus for class XI
Collect information and prepare an outline structure on those topics .
Topic for project will be finalised after discussion in the class.

2. Documentary

Watch episodes on Indus Valley civilisation in Bharat-Ek Khoj by Jawahar Lal Nehru

3. Read any two books written by Devdatta Patnayak

4. Study and collect information about Mesopotamian and Indus Valley civilisation .

Prepare a comparative study on both of these civilizations in your registers.

5. Frame MCQs and short questions from Chapter 1 in your registers.

GEOGRAPHY



Activity 1 -Make a Poster by using biodegradable material from your surroundings on Sustainable Development Goal assigned to you in class.

Size of the poster-A3 Sheet

Write your suggestions how can we achieve UN SDG Goals by 2030.

Activity 2-Write an Abstract in your geography notebook in 250 words on World Environment Day Theme-Ending Plastic Pollution.

Activity-3 Design a Logo Activity

Students of Geography will be starting an Environmental society on the occasion of World Environment day where all the Geography students will be doing various collaborative activities with members of DM& SDG Club for this society design a logo with a title on the Sheets provided to you .

Activity 4-Choose any topic from the list given below and make a model using sustainable products and give a presentation on the model each student will choose one topic from the list given below. Give a Brief write up in 100 words on your model at the time of submission after summer break.

Topics Of Geography Models

1. Structure of the Earth
2. 3D Map showing types of Soil
3. Layers of the Atmosphere
4. Global Climate Change-Global Warming
5. Land Breeze and Sea Breeze
6. Solar System
7. 3D Model Physical Features Of Rajasthan
8. Land Slides
9. Drainage Patterns-Trellis, Rectangular, Dendritic, Radial
10. 3D Map of Physical Features of India
11. Hydrological Cycle
12. Physical Features of Deserts
13. Multipurpose River valley project-DAM
14. Sources of Renewable Energy
15. Types of Soil

16. Biodiversity Park
17. Plate Tectonics-Convergent, Divergent, Transform boundaries
18. Submarine Relief Features
19. Rock Cycle-Sedimentary, Igneous, Metamorphic Rocks.
20. Himalayan Ranges -Himadri, Himachal and Shiwaliks
21. Major Passes in Himalayan Region
22. Indian River System

SOCIOLOGY

Sociology is introduced as an elective subject at the senior secondary stage. The syllabus is designed to help learners to reflect on what they hear and see in the course of everyday life and develop a constructive attitude towards society in change; to equip a learner with concepts and theoretical skills for the purpose.

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

POLITICAL SCIENCE



SUBJECT: POLITICAL SCIENCE ANNUAL PROJECT

Rationale

Political Science as a field of study in senior secondary classes enable students to get an exposure to political activities and processes that they are exposed to in everyday life.

Assignment 1

Presentation of news articles' summary of any 5 current affairs, national or international politics. The work has to be done in Political Science Notebook.

Assignment 2

CBSE has incorporated project work in Political Science to enable students to extend their interest beyond textbooks and provide them with a platform to gather information, value the decisions made to shape the community and visualise future course of action to be taken to ensure healthy democracy.

The Project can be made on any of the topics given in the syllabus of class XII. Using maps, cartoons, pictures, leaders / Events photographs, events, time lines, newspaper cuttings is compulsory in every project. Cover page highlighting the Topic of the Project.

Students may work upon the following lines:

1. Choose a relevant topic and get it approved before you start your research
2. Learning Objectives of the study
3. Content not to be missed in every project -Timeline, Maps, Mind maps, Pictures, etc.
4. Organization and presentation of Material/Data
5. Analyzing the Material/Data for Conclusion and draw the Relevant Conclusion
6. Bibliography

PSYCHOLOGY

1. Group Presentation (Chapter 4: Human Development)

Create a PowerPoint presentation on the topic assigned to your group from Chapter 4: Human Development.

Each student in the group is required to prepare one individual slide.

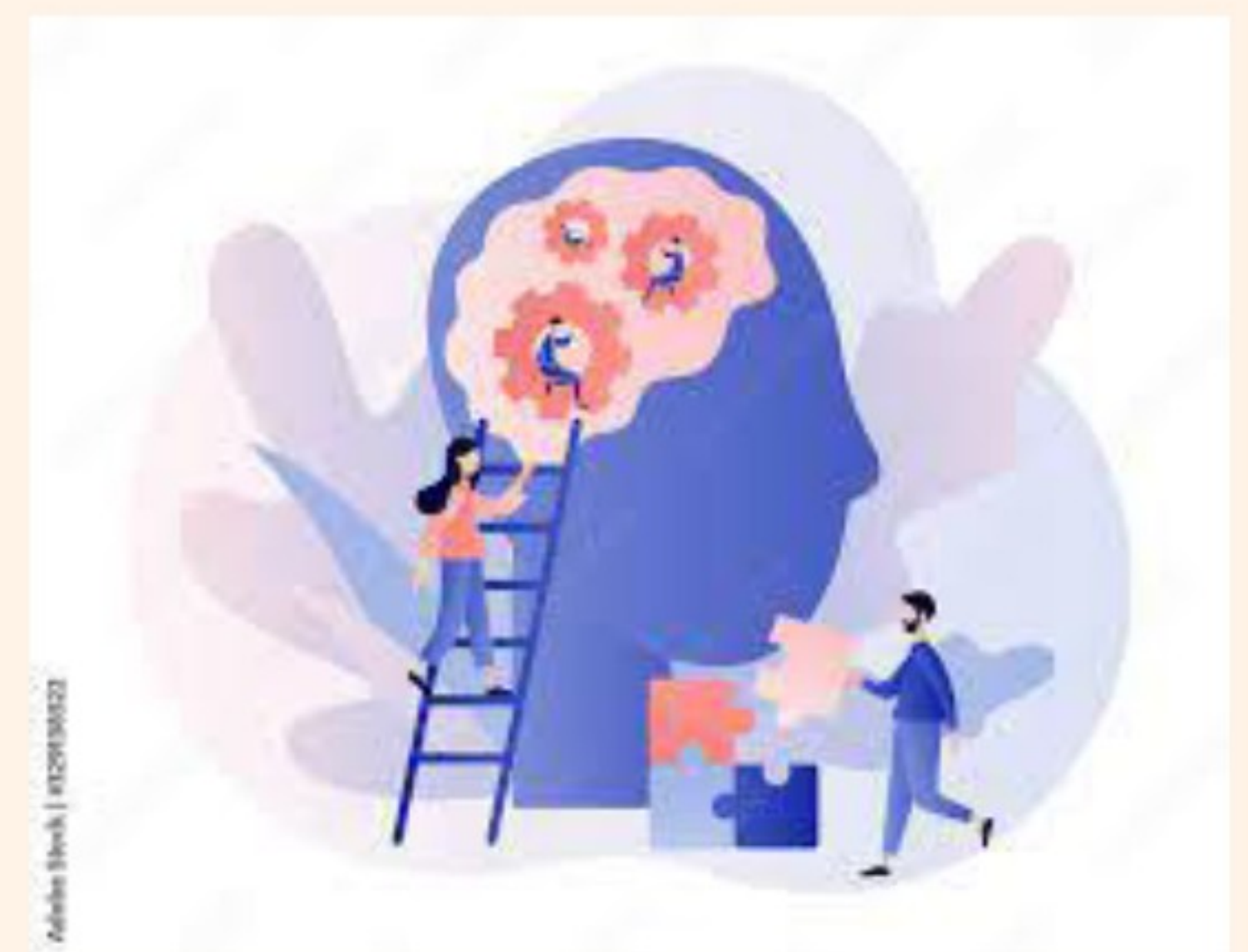
The presentation should include additional information such as recent research findings or common psychological disorders associated with the assigned life stage.

Submit both a hard copy (printed slides) and a soft copy (digital file) of the presentation.

2. Note-Making (Chapter 2)

Prepare comprehensive notes for Chapter 2 in your notebooks.

Ensure the notes are well-organized, include definitions, key concepts, examples where necessary, flow charts and mind map.



PHYSICAL EDUCATION



RESOURCE MATERIAL-

- *Any physical education reference lab manual (Saraswati Publication) which you can easily get.
- *You can download from the website CBSE.nic.in

GENERAL INSTRUCTION-

- Submission on opening.
- Students can contact for any doubt through email- dr.monikamathur9@yahoo.com

HOLIDAY HOME

Make a Record file:

BADMINTON

- History of the game
- Labeled diagram of field and equipment
- Rules and regulation of the game
- Fundamental skill of the game
- Terminologies of the game
- Personalities (Any five)
- Venue and Tournament

YOGA



Note book

1. Write in detail about Ashtanga Yoga
2. Write all terminology given in chapter one

Practical file

1. Surya namaskar method, steps, benifits, precautions
2. Halasan, Pawanmuktasana, Bhujangasan, shalbhasan, Gomukhasan, Vakarasan, Ushtrasan, Vajrasana, Vrikshasan, Mandukasan, Shashankasan, Vrikshasan, Janusirasan and Padhastasan

Write these asanas steps, benefits and precautions on the A4 size sheet and paste picture with label (left side as it will be added in practical file)

And practice these daily with your family (If any doubt ask anytime)

PAINTING AND COMMERCIAL ART



Folk Art on any 2 styles (phad, pattachitra, kalamkari & madhubani)

Size –A3 sheet

