



Birla Balika Vidyapeeth, Pilani
Summer Vacation Holiday Homework 2026

CLASS XII

Classes: 12 C & E

English Core: Languages: A Window to the World

G. Studies: Child Labour

Class XII A,D

F. M.M

Learn abbreviations as discussed in chapter 1. Do prepare chapters flow chart/ PPT and with the Google search, you tube, CNBC awaaz etc to make clear concept practically. Select any 2-3 company of your choice. Show Company performance: income statement, cash flow, balance sheet,

Indicators of particular company. And also prepare Bar diagram, pie chart and report of each company Represent in the form as per trading view, You can download from tikertape, screener.com.etc. Do prepare attractive and colour full.

Prepare a list of IPO during the Holidays date-wise. Government securities

Prepare project file hand written 25-40 pages.

Business studies XII D

Do learn chapter 1, 2 and 3

Prepare business studies project as discussed in the class & write 20 MCQ from each chapter.

BIOLOGY

1. Assignments (Extramarks)

- Complete **Extramarks assignments** of **all 3 chapters taught**

Ensure: All questions attempted, Correct answers reviewed, Doubts noted separately

2. Practical File Work

Update your **Biology Practical File** with the following experiments/ diagrams:

- Pollen Tube Germination
- T.S. of Ovary
- T.S. of Testis
- Blastula Stage
- Pollinating agents (Entomophilous, anemophilous & Hydrophilous flowers)

Instructions:

- Proper diagrams (well-labelled), Neat presentation, Practice Viva questions.
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3. Virtual Lab Practice (OLabs) <https://www.olabs.edu.in/>

- Practice simulations on **OLabs Virtual Lab**
 - Complete **all practicals mentioned above**
 - Revise procedure + observations
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4. Blog Writing – World Environment Day 2026

Submit blog posts **before 25th May on WhatsApp**

Suggested Topics (choose any 1-2):

- “Beat Plastic Pollution – A Student’s Role”
- “Climate Change and Its Impact on Future Generations”
- “Sustainable Living: Small Changes, Big Impact”
- “Biodiversity Conservation: Why It Matters”

- “Green Schools for a Greener Future”
- “Water Conservation: Need of the Hour”
- “From Awareness to Action: Saving Our Planet”
- “Eco-friendly Lifestyle: Myth or Reality?”

Guidelines:

- Word limit: 100–150 words, Add a suitable title, Use simple, original language
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 **5. NCERT Work**

- Write **all NCERT questions & answers** of the chapters taught
 - Maintain a **64-page Holiday Homework Notebook**
 - Follow: Write Question first, then answer in neat handwriting & proper diagrams to be drawn wherever necessary.
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 **6. Investigatory Project (Art Integrated & Handwritten)**

 **Topic:**

- Choose any relevant Biology topic of your interest

 **Mandatory Pages (in order):**

1. Cover Page
2. Contents
3. Acknowledgement
4. Certificate
5. Project Aim
6. Objectives
7. Procedure
8. Observations
9. Result
10. Conclusion
11. Bibliography / References

 **Instructions:**

Entire project must be **handwritten**, Include **diagrams / drawing**

PHYSICS

1. Revise chapters: Electric charges and field, electric potential and capacitance and current electricity (1, 2, and 3).
2. Do NCERT question of chapter 1, 2, and 3.
3. Prepare one innovative project with report and working model on the topics: electricity, optics, magnetism, electromagnetic induction and semiconductor devices.

Physical Education

This holiday homework is only for students of Class XI and XII who do have as a subject

IN PRACTICAL FILE ONLY

Instructions: Complete in PE Practical File. Write Aim, Apparatus, Procedure, Observation, Conclusion for each. Paste photos. Submit after vacation.

SAI KHELO INDIA TEST

Test 4 students. Do: BMI, 50m Run, 600m Run, Sit & Reach, Standing Broad Jump. Make observation table. Compare with SAI norms. Paste 2 photos.

GAME SKILL TEST

Choose 1 Game: Basketball/Football/Volleyball/Badminton. Test 1 skill on 3 students. 10 chances each. Make score table. Draw labelled court diagram with dimensions. Paste 1 photo of measuring court.

Yoga

Perform: Tadasana, Vrikshasana, Bhujangasana, Ardhamatsyendrasana, Padmasana, Anulom-Vilom, Bhramari. Write steps + benefits + contraindications for any 5. Paste 7 photos.

Chemistry

1. ASSIGNMENT (EXTRA MARKS)

Complete the Extramarks assignments of the following chapters:

- * Haloalkanes & Haloarenes
- * Alcohols, Phenols & Ethers
- * Biomolecules

2. SPECIAL CLASS ASSESSMENT (HOMEWORK)

Prepare chapter-wise written work in a clear explanation format. (Assignment provided in hard copy)

PRACTICAL FILE WORK -

Volumetric Analysis

1. To prepare 250 mL of M/40 oxalic acid solution accurately for laboratory use.
2. To determine the exact concentration of KMnO_4 solution by titrating it against standard oxalic acid solution.

Salt Analysis (Qualitative Analysis)

9. To identify the cation and anion present in Lead Acetate sample using systematic analysis.
10. To identify the cation and anion present in Lead Nitrate sample using chemical tests.
11. To identify the cation and anion present in Aluminium Chloride sample.
12. To identify the cation and anion present in Barium Acetate sample.
13. To identify the cation and anion present in Manganese Sulphate sample.
14. To identify the cation and anion present in Ammonium Carbonate sample.
15. To identify the cation and anion present in Calcium Chloride sample
16. To identify the cation and anion present in Barium Nitrate sample.
17. To identify the cation and anion present in Zinc Carbonate sample.
18. To identify the cation and anion present in Ammonium Chloride sample.
19. To identify the cation and anion present in Magnesium Sulphate sample.

3. To study how change in concentration and temperature affects the rate of reaction between sodium thiosulphate and hydrochloric acid.

Organic Analysis

4. To detect the presence of alcohol functional group (-OH) in the given organic compound using suitable tests.

5. To identify the presence of phenol group in the given sample by characteristic chemical test.

6. To confirm the presence of carboxylic acid group (-COOH) in the given organic compound.

7. To prepare 250 mL of M/20 Mohr's

TOPIC ALLOTMENT (NAME-WISE)

A - C

 Study of Food Adulteration in Common Food Items

(Based on Biomolecules)

D - F

 Analysis of Water Quality (pH, Hardness, Impurities)

(Environmental Chemistry)

G - I

 Study of Carbohydrates and Their Role in Energy Production


(Biomolecules)

J - L

 Comparative Study of Alcohols and Phenols in Daily Life

(Alcohols, Phenols & Ethers)

M - O

 Preparation and Uses of Haloalkanes and Haloarenes

(Haloalkanes & Haloarenes)

P - R

 Study of Vitamins and Their Importance in Human Body

(Biomolecules)

S - U

👉 Effect of Temperature and Concentration on Rate of Chemical Reaction

(Chemical Kinetics Concept)

📖 V - Z

👉 Study of Soaps and Detergents (Cleansing Action)

(Chemistry in Everyday Life)

Political science

PROJECT FILE WORK) Prepare project file for Political science external board practical exam

Instructions from Teacher:

- Prepare a neat and well-decorated project file.
 - Use A4 sheets only.
 - Write in your own handwriting.
 - Add pictures, diagrams, and charts where required.
 - Follow proper index and page numbering.
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Accountancy

1. Prepare Original Comprehensive Project by collecting information from small business .
2. Revise the following Topics:

Fundamentals of Partnership

Change in the Profit Sharing Ratio

Admission of a Partner

Retirement and Death of a Partner

Dissolution of Partnership

Painting

Practical Art Assignment

Create:

1. One A3 Size Artwork / Canvas Painting
 - Recreate (Replica) any artwork by an internationally established artist.
2. One A4 Size Artwork
 - Recreate a different artwork by another famous international artist.

Both artworks must be by different artists.

Along With Each Artwork, Write:

Artist Information

- Artist Name
- Country
- Art Movement / Style

About the Artwork

- Name of the Artwork
 - Year
 - Medium Used
 - Technique Used
 - Style of Painting
 - Short Description of the Artwork
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Example Artists You Can Choose

- Vincent van Gogh
- Pablo Picasso
- Leonardo da Vinci
- Claude Monet

- Frida Kahlo
 - Salvador Dalí
 - Andy Warhol
 - Raja Ravi Verma
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Sample Format

A3 Artwork

Artist:

Vincent van Gogh

Artwork:

The Starry Night

- Medium: Oil on Canvas
 - Technique: Bold brush strokes and texture work
 - Style: Post-Impressionism
 - Description: A night sky filled with swirling stars over a quiet village.
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A4 Artwork

Artist:

Pablo Picasso

Artwork:

Girl before a Mirror

- Medium: Oil on Canvas
 - Technique: Geometric forms and abstract shapes
 - Style: Cubism
 - Description: A creative representation of identity and reflection.
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Important Points

- Use neat finishing and proper coloring.
- Try to follow the original artist's style and technique.
- Mention the medium used (watercolor, acrylic, oil pastel, pencil colors, etc.).

- Submit both artworks with written information attached.
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Holiday Homework for class 12A, 12 D, 11 C and 11 E

English Core:

Make TWO Project portfolios.

Visit CBSE Academic website on cbse.nic.in and refer to the curriculum.

Select a topic either from book or any topic of your choice and do some research on it.

- Choose an activity(mandatory) to show what you have concluded or researched. Example Interview, documentary, survey, Power point presentation, or 5-minute skit.
 - Compile everything. Record the activity or attach proofs in terms of screenshots or photographs.
 - In the last write a report in about 800 words about the project as to how you did the entire task.
 - All this is mentioned in curriculum (syllabus) under the heading of Internal Assessment and arrange the documents in the order mentioned in the syllabus.
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General Studies:

Make TWO Project portfolios.

- Visit CBSE Academic website on cbse.nic.in and refer to the curriculum.
- Select a topic either from book or any related topic of your choice and do some research on it.
- Choose an activity to show what you have concluded or researched. Example Interview, documentary, survey, Power point presentation, or 5-minute skit.
- Compile everything. Record the activity or attach proofs in terms of screenshots or photographs.
- In the last write a report in about 800 words about the project as to how you did the entire task.
- All this is mentioned in curriculum (syllabus) under the heading of Internal Assessment and arrange the documents in the order mentioned in the syllabus.

- Do the question and answers of all the chapters and poems completed so far in the BBC compacta and also complete the extra questions dictated in the class for each chapter.
 - Visit Extra marks and complete the assignments assigned to you date-wise.
 - Prepare your lessons for the upcoming exams.
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Legal Studies

PROJECT GUIDELINES for Class XII

INTRODUCTION:

- The student is required to do a project on 'Understanding Case Laws'
 - **OBJECTIVES:**
 - The project work aims to enable students to:
 - Identify a legal problem and provide its remedy
 - Select relevant legal sources and conduct research
 - Analyse and distinguish between types of cases
 - Apply case laws and relevant statutory laws
 - **METHODOLOGY-:** The student is required to select any **3 decided cases** related to the curriculum where one must be civil in nature, one criminal and one constitutional in character.
 - The research on the cases must include the following points:
 - Name of the case
 - Parties to the case
 - Citation to the case
 - Bench
 - Nature of the case (Civil, Criminal or Constitutional)
 - Facts of the case and issues involved
 - Decision of the case including Ratio Decidendi and Obiter Dicta
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ENTREPRENEURSHIP

TOPICS

Activity 1. Conduct a case study of any entrepreneurial venture in your nearby area.

Activity 2. Know your State Handicraft and Handlooms as a means of economic activity for the livelihood of people and intellectual property rights attached to them for the promotion of local specific skills.

THE OBJECTIVES OF THE PROJECT WORK: • Probe deeper into personal enquiry, initiate action and reflect on knowledge and skills, views etc. acquired during the course of class • analyse and evaluate real world scenarios using theoretical constructs and arguments • demonstrate the application of critical and creative thinking skills and abilities to produce an independent and extended piece of work • follow up aspects in which learners have interest • develop the communication skills to argue logically

PROJECT MUST CONTAIN

Acknowledgement

“I would like to thank my teacher, parents, and school for guiding me in completing this holiday homework successfully.”

Introduction

Write 4–6 lines about the subject/topic and what you learned during the work.

Main Content

- Use proper headings and subheadings.
- Write neatly with blue/black pen.
- Highlight important points.
- Add diagrams/pictures if needed.
- Keep answers in sequence.

Conclusion

Write a short paragraph about what you learned from the homework.

Bibliography

Mention books, websites, or other sources used.

1. Business Plan
- . Market Survey

10 Marks each for 02 Projects

- 5 Marks for Numerical Assessment
- 5 Marks for Viva

Presentation Tips

Decorate borders lightly.

Use coloured headings.

Number all pages. Attach pictures

Informatics Practices

1. The students of Grade XII (Informatics Practices) are assigned a creative holiday project to explore the frontier of "Vibe Coding" using Google AI Studio/Replit. Instead of traditional syntax-heavy programming, students will act as prompt engineers to build a functional web application by describing their vision to the Gemini/ AI model. The process involves identifying a real-world challenge, drafting a "Vibe Brief" that outlines the app's aesthetic and core logic, and iteratively refining the generated code through natural language feedback. Final submissions must include the functional app files, a **"Prompt Log" detailing the conversation** with the AI, and a **project report** highlighting the evolution of the application. Projects will be assessed on the **effectiveness of the prompting strategy**, the **app's functionality**, **UI/UX design**, and the clarity of the **documentation**.

2. Practical file of IP to be completed

Multimedia

Create a portfolio for the subject Multimedia as per format shared on student email.

Artificial Intelligence

Create 100 multiple-choice questions based on the chapters Data Science Methodology: An Analytic Approach to the Capstone Project and Data Storytelling.

Computer Science

Solve last 10 years CBSE paper for SQL topic

Read computer networking chapter prepare notes and create list for full forms

NCC

“The stories of the 21 Param Vir Chakra Award awardees reflect extraordinary courage, leadership, sacrifice, and patriotism.”

Prepare a creative file on all 21 Param Vir Chakra awardees. Include their contribution, battle fought, acts of bravery, and the values that today's youth and NCC cadets can learn from them. Also write a short reflection on how these heroes inspire you to develop discipline, leadership, courage, and devotion towards the nation.

Economics

Prepare a 40-page handwritten project report according to the CBSE curriculum guidelines. The project should include all essential sections such as the cover page, certificate, acknowledgement, index, detailed content, diagrams/charts, conclusion, bibliography, and student View.

Complete all Assignments and prepare all chapters done till now for class Assessments in July.

Medical Diagnostics (Code 828)

Holiday Homework (2026-27)

Subjective Questions

1. What is Haematology? Define in your words.
2. What is the role of clinical haematology laboratory in hospital?
3. What is the use of Auto-analyser in haematology laboratory?
4. Write a shore note on Haematology laboratory analysis with definition examples of test.
5. What is the role of Immersion oil and DPX in microscopy study?
6. What precautions are required to consider while using a centrifuge?
7. Explain the difference between the term Pellet and Supernatant.

8. Draw the labelled diagram of following:
 - (a) Compound microscope
 - (b) Blood clotting process
9. Explain the role of Automated cell counter with its working principle.
10. What is the use of 'Coagulation analyser' in diagnosis?
11. What is the mode of action of EDTA as anticoagulant?
12. Which anticoagulant is most suitable for estimation of Erythrocyte Sedimentation Rate (ESR) by Westergren method?
13. Explain the advantages and disadvantages of Heparin as anticoagulants.
14. What is the advantage of use ammonium oxalate and potassium oxalate are combined as double oxalate?

Project and PPT Work

1. Student should prepare a handwritten art integrated project of Medical Diagnostics related topics (Pages of project 20 to 25).
2. Prepare PPT on the following topics:
 - Prevention of anaemia
 - Blood cancer and its types
 - Career goals

Biotechnology

Holiday Homework (2026-27)

Subjective Questions

1. Define the following:
 - Plasmid Restriction site
 - Transformation
2. What are restriction enzymes and why are they so important in rDNA technology?
3. Enlist the various steps involved in a rDNA experiment.
4. What are the essential features of a vector?
5. What does PCR stand for? Name the different steps in a PCR reaction.
6. Explain 'Insertional Inactivation'.
7. What are the disadvantages of using E. coli for production of eukaryotic proteins?
8. Distinguish between:
 - o Blunt ends vs sticky ends
 - o YAC vs BAC
 - o Microinjection vs Electroporation
9. Write a short note on RFLP and indicate one of its important applications.
10. Why are ddNTPs used in sequencing? Briefly indicate the principle of DNA sequencing using these.

Project Work

1. Student should prepare a handwritten art integrated investigatory project of Biotechnology related topics (Pages of project 20 to 25).
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Career And Socio-Emotional

Career Research Paper: select a career you are interested in and write a detailed research paper. You should cover aspects like educational requirements, skills needed, job outlook, and potential career paths.

- Objective: Map out the academic and career journey in a chosen field.
- Instructions: Select one career you're seriously considering. Create a comprehensive report covering:
 - Career overview and responsibilities
 - Required qualifications (UG/PG courses, entrance exams)
 - Top colleges (India & abroad)
 - Career prospects and salary range
 - Required skills and certifications
 - Future trends and emerging opportunities

CLASS XII

Assignment – The Gap Between Who I Am and Who I Think I Should Be

Career Expectations vs. Inner Truth By Class XII,

. This assignment is about pausing and examining the best version about you honestly.

Part 1 – Two Versions of You

Draw two columns:

The version others expect The version I actually am

2. Career they want for me | Career I secretly find meaningful |
3. Strengths they see | Strengths I know I have |
4. Definition of success they hold | What success feels like to me |

5. How they measure my worth | How I actually measure my own worth |

Fill both columns as honestly as you can. No one needs to see this if you don't want them to.

Part 2 – The Fear Underneath

Answer these questions in paragraph form:

- What is the specific thing you are most afraid of as you approach life after Class XII – not the surface fear, but the deeper one underneath it? For example, the surface fear might be not getting into a good college but the deeper fear might be not being seen as intelligent or not living up to every one's expectations .
- Have you ever made a choice – about subjects, activities, friendships – based on fear rather than genuine interest? What happened?
- If you knew you absolutely could not fail, what would you choose to do after school?

Part 3 – A Conversation You Need to Have With Yourself

Write a 200-word honest letter from your future self at 30 back to you right now. What do you think it would say to you .

Submit: Two-column table + paragraph responses + letter from future self.

PSYCHOLOGY HOLIDAY HOMEWORK (2026-27)

CLASS XII

- 1. Learn chapters 1 and 2.**
- 2. Complete the practical file as discussed in class.**
- 3. Create the case profile as discussed. Also collect relevant certificates and photographs.**
- 4. Prepare 5 mind maps each from chapters 1 & 2, (total 10) as discusse**