

VIVEKANAND PUBLIC SCHOOL

Holiday
HOMework
Class XI
(Session 2026-27)



★ LEARN ★ EXPLORE ★ GROW ★ SUCCEED

Holiday Homework

Dear Students,

As you enjoy your holidays, it is important to stay connected with your studies and use this time productively. The holiday homework is designed to reinforce the concepts taught so far and to encourage creativity and independent thinking. Please follow the instructions carefully:

GENERAL INSTRUCTIONS

1. **Submission Date:** All homework must be submitted on 06July2026.

PRESENTATION:

- Work should be neat, legible, and well-organized.
- Use A4 size sheets (or as directed by each subject teacher).
- Maintain a proper index and cover page for each subject.

ORIGINAL WORK:

- Avoid copying from the internet or peers.
- Plagiarized content will not be accepted.
- Projects and assignments should reflect your own understanding and creativity.

Wishing you a restful and productive holiday!

CBSE SEVA PROJECT GUIDE LINE FOR CLASS XI – HOLIDAY HOMEWORK

Title of the Project

Project Clean Earth: Cloth Bag Distribution Campaign

Objective

To reduce the use of plastic bags in the local market by encouraging people to use eco-friendly cloth bags and spreading awareness about environmental protection.

Planning and Preparation

Target & Timeline:

I planned a 3-week project to create awareness about the harmful effects of plastic pollution. My aim was to motivate local shopkeepers and residents to switch to reusable cloth bags.

Materials Gathered:

I collected old cotton clothes, reusable fabric bags, chart papers, markers, thread, and sewing materials. I also prepared awareness posters and slogans.

Survey and Research:

I visited nearby shops and observed that many people still used plastic bags daily. I researched how plastic waste harms animals, blocks drainage systems, and pollutes soil and water.

Community Engagement:

I designed small posters and slogans like “Say No to Plastic” and “Use Cloth Bags, Save Nature.” I discussed the importance of reusable bags with neighbors and local shopkeepers.

Execution/Implementation

Step 1 (Collection of Materials):

I collected old cotton clothes from my home and neighborhood. These unused clothes were cleaned and prepared for making cloth bags.

Step 2 (Preparation of Cloth Bags):

With the help of family members, I stitched simple reusable cloth bags in different sizes suitable for shopping and daily use.

Step 3 (Awareness Campaign):

I visited nearby shops and residential areas to spread awareness about the harmful

effects of single-use plastic. I displayed posters and explained the benefits of cloth bags.

Step 4 (Distribution Activity):

I distributed the cloth bags free of cost to shopkeepers, domestic helpers, and neighbors. I encouraged them to reuse the bags instead of taking plastic bags from markets.

Reflections

This project helped me understand how small individual efforts can create a positive impact on society and the environment. I realized that replacing plastic bags with cloth bags is a simple but powerful step toward protecting nature.

During the campaign, many people appreciated the idea and promised to reduce plastic usage in their daily lives. This experience improved my communication skills, confidence, and sense of social responsibility.

Photographs (with Captions)

Photograph 1: Collecting old cotton clothes for making reusable bags.

Photograph 2: Stitching and preparing cloth bags at home.

Photograph 3: Displaying awareness posters in the local market.

Photograph 4: Distributing cloth bags to neighbors and shopkeepers.

Photograph 5: Group photo showing the successful completion of the campaign

ENGLISH

Q1. Complete the project taking ideas from the guidelines given below. It has to be made on A4 sized sheets and to be enclosed in a decorated file.

Q2. Complete the assignment given below in your English notebooks.

PROJECT WORK:

The Project can be inter-disciplinary in theme. The students must take any one of the techniques given below as a methodology of project Work:

A) Interview-Based Research:

Choose a topic and conduct interviews with neighbors, friends, or experts. Frame questions based on preliminary research and write a report/essay of up to 1000 words.

B) Audio/Video based Research:

Listen to podcasts or watch documentaries on a specific topic. Prepare a report of 800–1000 words agreeing or countering the speakers.

LIST OF TOPICS/THEMES

A. THE PORTRAIT OF A LADY – GENERATIONAL BONDS

- 1.Changing relationship between grandparents and grandchildren.
- 2.The role of animals and nature in a lonely life.
- 3.The impact of urbanization on traditional values.

B. "WE'RE NOT AFRAID TO DIE.."– COURAGE AND SURVIVAL

- 1.The importance of family unity during a crisis.
- 2.A case study on famous maritime expeditions.
- 3.Mental toughness: How to stay calm under pressure.

C. THE LABURNUM TOP / A PHOTOGRAPH – NOSTALGIA AND NATURE

1. The transience of human life vs. the permanence of nature.
2. The significance of old photographs in preserving memories.
3. The ecological importance of local flora and fauna.

PROJECT LAYOUT

SHEET 1: Cover Page (Title, School details, Student details).

SHEET 2: Statement of Purpose/Objective.

SHEET 3: Certificate of Completion.

SHEET 4: Action Plan (Research tools and Methodology).

SHEET 5: Introduction of the Project.

SHEET 6: Supporting Material (Questionnaires, Case Studies, Photos).

SHEET 7: Report (800–1000 words).

SECTION B: SHORT & LONG ANSWER QUESTIONS

1. In the Portrait of a Lady, how does the grandmother's silence during her final moments signify her character?
2. Competency-Based: Compare the themes of "adventure" and "survival" in We're Not Afraid to Die with modern-day explorers.
3. Analytical: Is the desire to return to the past (nostalgia) a strength or a weakness in The Portrait of a Lady?

SECTION C: WRITING SKILLS

1. Notice: You are the Captain of the School Sports Team. Draft a notice for the Selection Trials of the Cricket Team.
2. Letter to Editor: Write a letter to the Editor of a national daily expressing concern over the lack of mental health awareness among teenagers.

Q2- Do the following assignment in you class note book neatly:

Assignment-1

https://docs.google.com/document/d/1nSPxxnwY0D9W0FFspwRhm0Ix_FbDxtX/edit?usp=drivesdk&oid=109645169382816523720&rtpof=true&sd=true

PHYSICS

Make An Investigative Project and Working Model on Given Topic.

Write 20 Questions with Answers Based on Your Investigatory Project.

Write First 3 Experiment in Your Practical File

Exp. 1 - To Measure the Diameter of a Small Spherical/Cylindrical Body and To Measure Its Internal Diameter and Depth of a Given Beaker Using Vernier Calliper and Hence Find Its Volume.

Exp. 2 - To Measure the Diameter of Given Wire and Thickness of a Given Sheet by Using Screw Guage.

Exp. 3 - To Determine the Volume of Irregular Lamina Using Screw Guage.

Q- Do the following assignment in you class note book neatly:

Assignment 1 and 2 Link:

<https://drive.google.com/file/d/16g7dTF0D9RFVPD-Pz31LARAksFEQTxkQ/view?usp=drivesdk>

CHEMISTRY

Part 1: Conceptual & Numerical Practice

1. Stoichiometry & Mole Concept

- Calculate the molarity of a solution prepared by dissolving **4.0g** of **NaOH** in enough water to form **250mL** of solution.
- Determine the empirical formula of an oxide of iron which has **69.9%** iron and **30.1%** dioxygen by mass.
- How many moles of methane are required to produce **22g** of **CO₂** (g) after combustion?

2. Atomic Structure

- Calculate the energy associated with the first orbit of He^+ . What is the radius of this orbit?
- Write the electronic configuration of the following ions: Cu^{2+} , Cr^{3+} , and Fe^{2+} .
- Calculate the wavelength of a photon emitted during a transition from $n = 5$ state to the $n = 2$ state in the hydrogen atom.

Part 2: Practical & Research Task

Investigatory Project (Select any one topic):

- **Checking Water Hardness:** Collect water samples from three different sources (tap, well, and filtered). Use a standard soap solution to compare the hardness of these samples based on lather formation.
- **Adulteration in Food:** Conduct simple chemical tests to detect common adulterants in daily food items like fats, oils, and butter (e.g., starch in milk or artificial colors in spices).

Part 3: Creative Application

1. **Chemistry in Daily Life Journal:** Identify five chemical compounds found in your kitchen. For each, provide: Chemical Name, Molecular Formula, and one industrial/ household use.
2. **3D Model Construction:** Create a 3D model representing the shapes of s , p , and d orbitals using eco-friendly materials (clay, recycled cardboard, or thread).

Part 4: Competitive Edge (Critical Thinking)

- **Gay-Lussac's Application:** If ten volumes of dihydrogen gas react with five volumes of dioxygen gas, how many volumes of water vapor would be produced? Justify your answer.
- **Quantum Puzzle:** Why is the electronic configuration of Chromium $[\text{Ar}] 3d^5 4s^1$ instead of $[\text{Ar}] 3d^4 4s^2$? Explain on the basis of symmetry and exchange energy.

Submission Guidelines:

- Numerical problems and theoretical questions must be solved in the Chemistry Assignment Register.
- The Investigatory Project report should be handwritten on A4 size sheets and presented in a formal folder.
- Models should be labeled clearly with the student's name and class.

Q- Do the following assignment in you class note book neatly:

https://drive.google.com/file/d/1ggF8b3-xM_Xd7eCFDLhT3OWiAhunktFJ/view?usp=drivesdk

MATHEMATICS

1. Do the five lab manual activity in the Activity file
2. Mathematics project Guidelines

Math Project Guidelines

To develop interest in math, improve accuracy, and increase problem-solving speed, you're assigned a project to work on during the summer break with your group.

Project Objectives

1. Develop interest in math
2. Improve mathematical accuracy
3. Enhance problem-solving speed

Project Suggestions

1. Create mathematical models to represent real-life problems
2. Develop math-based games or puzzles
3. Design a math exhibition showcasing mathematical concepts

Project Requirements

1. Accuracy and precision in mathematical concepts
2. Attractive and engaging presentation
3. Effective group collaboration

Project Evaluation

1. Mathematical content and accuracy
2. Presentation quality and creativity
3. Group collaboration and

teamwork have fun working on

your project!

1. Make a project based on sets(Roll no 1 to 10)
2. Make a project based on Functions (Roll no 11 to 20)
3. Make a project based on trigonometric angles(Roll no 21 to 30)
4. Make a project based on conic section(Roll no 30 onward)

Q. Do these Assignment in the Assignment Register.

<https://drive.google.com/file/d/1bYZkmPbmYpdTfemtkcqDfJa-w-MZnSri/view?usp=drivesdk>

BIOLOGY

- Prepare a 3-D or working model based on any topic given related to your syllabus.
- Few topics are suggested here-
- AI based cancer detection model
- Ai based Disease Diagnosis System
- Epidemic prediction
- Smart Heart Monitor
- Ai based Forest Fire Alert system/ Pollution Monitoring or any topic helpful for mankind
- Complete your practical record with all experiments as per given in your syllabus.
- Complete the given assignments in the homework notebook.

Q- Do the following assignment in you class note book neatly:

<https://docs.google.com/document/d/1zclC1f4TsjdABsOHWN-rra5lj1cFWmDJLXJ5pJkHA7o/edit?usp=drivesdk>

Computer Science

1. Future Smart Classroom Diorama

Concept:

Classroom of 2050

Include:

- **Smart board**
- **AI assistant**
- **Facial attendance system**
- **VR learning**
- **Students using AI tools**

Creative Add-on:

Use cotton for “cloud AI system”.

2. “Ethics Tree” Display Model

Theme:

“How good values build a better society”

How to Make:

- Create a big tree on chart paper/cardboard.
- Write:
 - Roots → Values (Honesty, Respect, Kindness)
 - Trunk → Society
 - Branches → Law, Rights, Duties
 - Leaves → Ethical actions

Decoration:

Use colored paper leaves and quotes.

3 Cyber Safety Awareness Board


Title:

“Think Before You Click!”

Include:

- Fake vs Real News
- Cyberbullying
- Strong Password Tips
- Online Scams
- QR code to cyber safety website/video

Creative Add-ons:

- Make phone-shaped cutouts
- Add warning symbols 
- Use neon markers

4. Social Media Ethics Flipbook

Pages:

1. Good Online Behaviour
2. Bad Online Behaviour
3. Do's and Don'ts
4. Cyber Laws
5. Digital Footprint

Creative Idea:

Make Instagram-style pages and chat bubbles.

5. Fake News Detector Project

Creative Interactive Idea

Make two sections:

-  TRUE NEWS
-  FAKE NEWS

Ask viewers to guess which one is real.

Add:

- Tips to identify fake news
- Importance of ethical sharing

Note : Q1 is compulsory for all and select any 2 topics from the remaining 4 questions above to cyber Security awareness

FOR ASSIGNMENTS-:

https://drive.google.com/file/d/106Fu-ZIU88pjrxe_0ZnitbduQ_yRLCE2/view?usp=drivesdk

Business Studies

(i).MODEL (On any one topic):

1. Types of Business Organisations

- 3D models showing Sole Proprietorship, Partnership, Joint Stock Company, and Cooperative Society.

2. E-Business vs Traditional Business

- A comparative model or working setup demonstrating online vs offline business processes.

3. Supply Chain Management

- Flow diagram/model showing the journey of a product from manufacturer to customer

4. Digital Payment Systems in India

- Working model showing UPI, NEFT, RTGS, and digital wallets.

5. Social Responsibility of Business

- Model highlighting corporate social responsibility (CSR) initiatives by companies.

6. Banking Services C Procedures

- Model showing how to open a bank account, use of cheques, ATM, online banking, etc.

7. Insurance Services

- Display types of insurance (life, health, fire, marine) and their relevance to business. Submission

date: 6-07-2026

Q. Q- Do the following assignment in you class note book neatly:

Assignment 1 and 2 Link :

https://drive.google.com/file/d/19bFFNBj3dUIrIQgV7zQ2iD8mUm4zDGs5/view?usp=drives_dk

ECONOMICS

General Instructions to prepare the project:

1. The project should be simple, brief and easy.
2. It should be handwritten. The cover page should be neat and simple in presentation.

No glitters etc. should be used.

3. More credit will be given to original drawings, illustrations and mind maps.
4. The project should not have any political comments or reference to any political party.
5. It is not mandatory to have case studies / questionnaires in the project but if the topic demands it may be included.

Suggested Topics list:

- 1) NITI Aayog
- 2) Digital Payments
- 3) Currency War
- 4) Production Possibility Frontier
- 5) Central Problems
- 6) Economics behind IPL
- 7) Indifference Curve Analysis
- 8) GST
- 9) Utility Analysis
- 10) Organic Farming

2) Prepare a model on any one topic:

- a) Major sectors of Indian Economy
- b) Evolution of money
- c) Conservation of energy
- d) Smart City
- e) Smart water sensor or alarm

Q- Do the following assignment in your class note book neatly:

https://docs.google.com/document/d/1PaPik3QmMYPKw_OvBX-QDNX4M539TOjCuWpgR-qarhY/edit?usp=drivesdk

Applied Mathematics

PART - A :

Do one project in your project file. (List of projects shared below)

- (i) Prepare a questionnaire to collect information about money spent by your friends in a month on activities like travelling, movies, recharging of the mobiles, etc. and draw interesting conclusions
- (ii) Check out the local newspaper and cut out examples of information depicted by graphs. Draw your own conclusions from the graph and compare it with the analysis given in the

report

(iii) Analysis of population migration data positive and negative influence on urbanization –

(iv) Each day newspaper tells us about the maximum temperature, minimum temperature, and humidity. Collect the data for a period of 30 days and represent it graphically. Compare it with the data available for the same time period for the previous year

(v) Analysis of career graph of a cricketer (batting average for a batsman and bowling average for a bowler). Conclude the best year of his career. It may be extended for other players also - tennis, badminton, athlete

(vi) Vehicle registration data - correlating with pollution and the number of accidents

(vii) Visit a village near Delhi and collect data of various crops over the past few years from the farmers. Also, collect data about temperature variation and rain over the period for a particular crop.

Try to find the effect of temperature and rain variations on various crops

(viii) Choose any week of your ongoing semester. Collect data for the past 10 - 15 years for the amount of rainfall received in Delhi during that week. Predict the amount of rainfall for the current year

(ix) Weather prediction (prediction of monsoon from past data)

(x) Visit Kirana shops near your home and collect the data regarding the sales of certain commodities over a month. Try to figure out the stock of a particular commodity which should be in the store in order to maximize the profit

(xi) Stock price movement

(xii) Risk assessments by insurance firms from data

(xiii) Predicting stock market crash

(xiv) Predicting the outcome of an election - exit polls

(xv) Predicting mortality of infants

Part - B :

Q- Do the following assignment in you class note book neatly:

Assignment Link :

<https://acrobat.adobe.com/id/urn:aaid:sc:AP:303e6321-f835-453e-ba2e-748d5453d834>

POLITICAL SCIENCE

A) Complete Holiday homework Assignment separately on A-4 size sheet
(Assignment attached below)

B) Political Science Project- Prepare a project according to CBSE
guidelines. Topics as discussed in the classroom.

Some suggested topics are:

1. Indian Constitution
2. Equality
3. Liberty
4. Judiciary
5. Executive
6. Elections
7. Local government
8. Legislature
9. Social Justice

INSTRUCTIONS ARE AS FOLLOWS:

1. Project must be handwritten. Print outs will not be accepted.
2. Project to be done individually.
3. Page Limit- 25-30 pages.
4. Pictures must be incorporated.
5. Assessment will be based on creativity, presentation and research work conducted by the student.

C) Prepare a poster on 'Social Justice'.

Q- Do the following assignment in you class note book neatly:

<https://docs.google.com/document/d/1QrSEcbekiLfdz5ZJTCDQJIGagVl1JyjoLFWImJUU90w/edit?usp=drivesdk>

History

HISTORY PROJECT WORK GUIDELINES

The History Project Work for Class XI aims to develop research skills, historical understanding, analytical thinking,

creativity, and interpretation of historical sources. The project should reflect competency-based learning as prescribed by CBSE and NCERT.

GENERAL INSTRUCTIONS FOR STUDENTS

1. The project must be prepared individually.
2. The work should be handwritten, neat, and well-organised.
3. Use A4 size ruled/interleaf sheets.
4. Use blue or black pen for writing and coloured pens for headings only.
5. **The file should be well covered and decorated.**
6. Include Cover Page, Certificate, Acknowledgement, Index, Introduction, Main Content, Conclusion, and Bibliography.
7. Pictures, maps, timelines, flowcharts, and diagrams should be included wherever required.
8. Pictures should preferably be pasted on the left-hand side and written content on the right-hand side.
9. Every picture should contain a proper caption/title.
10. Avoid copied internet material. Original presentation and understanding will be appreciated.
11. Mention all sources properly in the bibliography.

TOTAL PAGES REQUIRED

Approximately 18-20 pages

Main written content: Approximately 12-14 pages

Project Topics-

1. Mesopotamian Civilization
2. Development of Writing in Ancient Civilizations
3. Life in Ancient Mesopotamian Cities
4. Roman Trade and Economy
5. Cultural Achievements of Romans
6. Nomadic Tribes and Their Lifestyle
7. Feudalism in Europe
8. Medieval European Society
9. Life of Peasants and Serfs
10. Renaissance and Humanism
11. Leonardo da Vinci and Renaissance Art
12. Scientific Revolution in Europe
13. Modernisation in Japan

14. Japan's Industrial Growth

15. Chinese Revolution

RECOMMENDED SOURCES

NCERT: Themes in World History - Class XI

CBSE Academic Website: <https://cbseacademic.nic.in>

NCERT Official Website: <https://ncert.nic.in>

For Roll numbers – 1-7 and 30 above

1. Clay Tablet Display (3D Artwork)

Students can create a **Mesopotamian clay tablet** using:

- Clay / dough / cardboard
- Cuneiform symbols carved with sticks

Display Idea:

Mount the tablet on a chart with:

- Meaning of cuneiform script
- Importance of writing
- Small sketches of scribes and city life

For Roll numbers – 8 to 15 , 25 - 30

2. Hanging Timeline Scroll

Make a long scroll showing:

- Growth of cities
- Development of writing
- Trade system
- Important rulers

Creative Touch:

Use burnt-paper effect or ancient-paper look.

Students can decorate with:

- Rope
- Seals
- Clay stamps
- Ancient borders

For roll numbers- 16 to 24

3. Roman Costume Paper Dolls – size must be large enough

Design Roman emperor/soldier costumes using :

- Fabric scraps
- Paper folding
- Jewelry designs

Add Information:

- Roman social classes
- Role of army
- Lifestyle

Q- Do the following assignment in you class note book neatly:

https://drive.google.com/file/d/1Ckf4WrVD1FkV1x1ivNZ_oidoMiddo-8m/view?usp=drivesdk

PAINTING

Creative Expression Assignment

‘Collage – Mix paper, fabric, or magazine cut-outs to create a thematic artwork

Art History Assignment

Combine research and practice:

- Choose a famous artist (like Van Gogh, Frida Kahlo, or Raja Ravi Varma).
- Study their style and techniques.
- Create an artwork inspired by their style.

Technique-Focused Assignment

Watercolor or Acrylic Blending – Show smooth gradients and light-to-dark effects.
 Perspective drawing – Draw streets, buildings, or rooms using one-point or two-point perspective.

Theme-Based Assignment

Human Emotions – Express emotions like joy, sadness, anger, or hope through colors, strokes, and composition.

Q- Do the following assignment in you class note book neatly:

<https://docs.google.com/document/d/1eKNc8xF-iSziscvrc7EJrfqk3KSR3ykX/edit?usp=drivesdk&oui=d=108667653988452077307&rtpof=true&sd=true>

PHYSICAL EDUCATION

Part – A

1. Write the following topics in detail:

Meaning and Importance of Physical Education Components of Physical Fitness
Importance of Yoga in Student Life Balanced Diet and Nutrition Olympic Games –
Motto, Symbol and Values

Part – B

2. Project Work

1. Prepare a project file on any one game/sport of your choice:
2. Cricket
3. Football
4. Volleyball
5. Basketball
6. Kabaddi
7. Kho-Kho
8. Include:
9. History of the game
10. Rules and regulations
11. Number of players
12. Ground measurements
13. Important tournaments
14. Famous players with pictures

Part – C

3. Viva/Assignment Questions

Answer the following questions:-:

1. What is Physical Fitness?
2. Define Yoga.

3. What is a balanced diet?
4. Name any five international sports events.
5. What are the benefits of regular exercise?

Note:

Maintain neatness and discipline in your work.

Parents are requested to encourage students to perform physical activities regularly during holidays.

Q- Do the following assignment in you class note book neatly:

https://in.docworkspace.com/d/sbCaed2gymMnR2Te_kpybg5u38tiz4tmbo1?lg=en-US&sa=601.1074&ps=1&fn=HHW%20XI%20Ph%20E.docx

ACCOUNTANCY

Make model on any one topic:

Model 1: Journal to Trial Balance – A Complete Accounting Cycle

Objective: To help students understand the entire accounting process from journal entries to trial balance.

Activities:

- Select a small fictional business (e.g., grocery shop, tuition center).
- Record at least 15 business transactions.
- Prepare:
 - Journal entries
 - Ledger accounts
 - Trial Balance

Model 2: Accounting for a Sole Proprietor

Objective: Understand how transactions are recorded for a sole proprietorship.

Activities:

- Create a fictional character (e.g., Raj, who runs a mobile shop).
 - Describe his business setup.
 - Record opening capital, expenses, revenues, and withdrawals.
 - Prepare basic financial statements (Cash Book, Profit & Loss, Capital Account).
-

Model 3: Vouchers and Source Documents Compilation

Objective: Understand and differentiate between types of source documents and vouchers.

Activities:

- Collect samples of:
 - Cash Memo
 - Invoice
 - Debit Note
 - Credit Note
 - Cheque
- Explain each document with a real-world example.
- Create a table categorizing them as cash/non-cash or supporting/accounting vouchers.

Deliverable: A scrapbook-style file or PowerPoint presentation.

Model 4: Depreciation Chart Using Fixed Installment Method Objective:

Learn how depreciation is calculated using the straight-line method. **Activities:**

- Choose an asset (e.g., machinery worth ₹1,00,000).
- Assume a useful life and scrap value.
- Calculate and show depreciation for 3 years.
- Represent data through a bar graph or line chart.

Q. ASSIGNMENT QUESTIONS TO BE DONE IN CLASS NOTEBOOK:

Assignment Link :

https://docs.google.com/document/d/197xtd3Eq-fjZWbPhnt72WKmNR5CsMvLA/edit?usp=drive_link&oid=105382473118874823041&rtpof=true&sd=true