



URSULINE CONVENT SR. SEC. SCHOOL

GREATER NOIDA

HOLIDAY HOMEWORK

Class XI

Session 2026-27



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ENGLISH

A). Prepare a **critical appreciation** of the poem “A Photograph” through a slide show using different kinds of graphical effects and present all three phases described in the poem.

Instructions:

1. Give a title to your presentation.
2. Add some pictures.
3. Minimum number of slides should be 10.
4. Also write a note on your association with your mother.
5. Make it attractive and colourful.

B). Draw a **poster** on behalf of ‘Arunachal Pradesh Tourism Department’ to promote tourism in the state.

C) . Based on the theme ‘ Grandparent- Grandchild Relationship’ of the Lesson “ The Portrait of a Lady” prepare a **Project** covering the following points:

1. A concern: Increasing number of old age homes and loneliness of elderly people in society.
2. Structure of the Family : A comparative study of the structure in 80s and now. (Joint families vs Nuclear families).
3. Causes of loneliness (Grandparents’, Parents’ and children’s)
4. Grandparents-Grandchildren relationship (Roles and benefits)
5. As a responsible youth suggest ways to bridge the gap and bring all the family members together.

INSTRUCTIONS FOR MAKING THE PROJECT:

THE PORTFOLIO OF PROJECT MAY INCLUDE THE FOLLOWING

1. Cover page with the title of the project, school details of the student.
2. Statement of purpose or objectives.
3. Certificate of completion
4. Index
5. Topic of the project
6. Content of the project (with photos)

7. Project Report (your views and suggestions)
8. Photographs (Your photographs preparing the project)
9. List of resources and bibliography

NOTE: 👉👉 THE PROJECT SHOULD BE HANDWRITTEN

(The cover page, acknowledgement, certificate can be printed and the rest of the pages should be handwritten) USE A4 SIZE SHEETS ONLY.

MATHEMATICS

Art Integrated Activity

Venn Diagram and representation of Sets

LAB ACTIVITY

Do the following lab Activities.

1. To find the number of subsets of a given set and verify that if a set has n number of elements, then the total number of subset is 2^n .
2. To represent set theoretic operations using Venn diagram.
3. To identify a relation and a function.
4. To verify the relation between the degree measure and the radian measure of an angle.
5. To prepare a model to illustrate the values of sine function and the cosine function for different angles which are multiples of $\pi/2$ or π .
6. To distinguish between a relation and function.
7. To find the values of sine and cosine function in second, third and fourth quadrants using their given values in first quadrant

2. WORKSHEETS

Solve Worksheet – 1 and Worksheet – 2 in a separate notebook.

- Worksheets are attached/provided separately by the subject teacher.

PHYSICS

1. Revise Chapter-1 Units and Measurements and Chapter-2 Motion in Straight Line and solve NCERT exercise and In-text questions related to these chapters.
2. Write the following experiments in Your Physics Practical Lab Manual (Publication-Comprehensive)

SECTION-A

1. To measure diameter of a small spherical body using Vernier Callipers
2. To measure internal diameter of cylindrical body and depth of a given beaker/calorimeter using Vernier Callipers and hence find its volume.
3. To determine radius of curvature of a given spherical surface by a spherometer.
4. To find the weight of a given body using parallelogram law of vectors.
5. Using a simple pendulum, plot its $L-T^2$ graph and use it to find the effective length of second's pendulum.

SECTION-B

1. To determine Young's modulus of elasticity of the material of a given wire.
2. To find the force constant of a helical spring by plotting a graph between load and extension.
3. To determine the surface tension of water by capillary rise method.
4. To study the relation between frequency and length of a given wire under constant tension using sonometer.

ART INTEGRATED PROJECT-

To design, plot, and evaluate a multi-variable kinematic model of free-fall motion by constructing time-aligned Position-Time ($x-t$), Velocity-Time ($v-t$), and Acceleration-Time ($a-t$) graphs, and to perform a comparative calculus-based analysis between an ideal Galilean vacuum model (uniform acceleration) and a realistic fluid-drag atmospheric model (non-uniform acceleration transitioning to terminal velocity).

3. SCIENTIFIC DOODLE COVER:

Create a detailed, hand-drawn doodle on the front page of your project file incorporating formulas, diagrams (vectors, pendulums, graphs), and sketches of famous physicists.

CHEMISTRY

1. Revise Chapter-1: SOME BASIC CONCEPTS OF CHEMISTRY and solve NCERT exercise and In-text questions related to this chapter.
2. **ART INTEGRATED PROJECT**- Design a blueprint in the form of Power Point Presentation to create a working model with innovative idea for upcoming science exhibition. (Make a group of five children)
3. Write the following experiments in Your Chemistry Practical File:

S. No.	Name of experiment
1	a) Determination of pH of some solutions obtained from fruit juices, solution of known and varied concentrations of acids, bases and salts using pH paper or universal indicator. b) Comparing the pH of solutions of strong and weak acids of same concentration. Study the pH change in the titration of a strong base using universal indicator.
2	Study the pH change by common-ion in case of weak acids and weak bases.
3	Preparation of standard solution of Oxalic acid.
4	Determination of strength of a given solution of Sodium hydroxide by titrating it against standard solution of Oxalic acid.
5	Determination of strength of a given solution of hydrochloric acid by titrating it against standard Sodium Carbonate solution.

BIOLOGY

1. ASSIGNMENT

ART INTEGRATED ACTIVITY

Make a power point presentation on flora & fauna of Arunachal Pradesh including taxonomy, morphology, diagrams, importance etc. (include 5 examples of flora & 5 examples of fauna)

2. PRACTICE WORKSHEET

TOPIC: BIOLOGICAL CLASSIFICATION

Section A – Case Study Based Questions

Case Study 1: The Pond Water Observation

Riya collected a sample of pond water and observed different organisms under a microscope. She noticed:

- Some organisms were unicellular and moved with pseudopodia.
- Some were green and prepared their own food.
- Some had whip-like flagella.
- A few organisms had a nucleus but no membrane-bound organelles.

Questions

1. Name the kingdom to which organisms with pseudopodia belong.
2. Which group among them can perform photosynthesis?
3. Organisms without membrane-bound organelles belong to which kingdom?
4. Why are unicellular eukaryotes placed in Kingdom Protista?
5. Differentiate between prokaryotic and eukaryotic cells on the basis of nucleus.

Case Study 2: Bread Mould Experiment

A student kept moist bread in a warm place for a few days. Cotton-like growth appeared on the bread surface. Under observation, thread-like structures with spores were seen.

Questions

1. Identify the organism commonly growing on bread.
2. To which kingdom does it belong?
3. What are the thread-like structures called?
4. Why are fungi called heterotrophs?
5. Mention one economic importance and one harmful effect of fungi.

Case Study 3: Farmer's Observation

A farmer noticed that leguminous plants in his field showed better growth even in less fertile soil. On examining the roots, small nodules were observed.

Questions

1. Name the microorganism associated with root nodules.
2. To which kingdom does this organism belong?
3. What is nitrogen fixation?
4. Why are bacteria considered useful organisms?
5. State one difference between cyanobacteria and bacteria.

Section B – Conceptual Questions

1. Why is classification necessary in biology?
2. Name the five kingdoms proposed by R. H. Whittaker.
3. What are the main criteria used by Whittaker for classification?
4. Why are viruses placed outside the five-kingdom classification?
5. Differentiate between Monera and Protista.
6. Why are fungi placed in a separate kingdom?
7. What is the importance of cyanobacteria in nature?
8. What are archaebacteria? Mention one characteristic feature.
9. Explain the role of decomposers in the ecosystem.

Section C – Reasoning Based Questions

1. Give reason:
 - a. Euglena is called a connecting link between plants and animals.
 - b. Mushroom is not placed in Kingdom Plantae.

- c. Viruses are called obligate parasites.
- d. Mycoplasma can survive without a cell wall.
- e. Lichens are good pollution indicators.

2. **Assertion–Reason Questions**

- a) Both A and R are true and R is the correct explanation of A.
- b) Both A and R are true but R is not the correct explanation of A.
- c) A is true but R is false.
- d) A is false but R is true.

Q1 Assertion (A): Members of Kingdom Monera are prokaryotic.

Reason (R): They lack a true nucleus and membrane-bound organelles.

Q2 Assertion (A): Fungi are heterotrophic organisms.

Reason (R): They contain chlorophyll pigments.

Q3 Assertion (A): Cyanobacteria are called blue-green algae.

Reason (R): They perform photosynthesis.

Section D – Higher Order Thinking Questions (HOTS)

1.If viruses show characteristics of both living and non-living things, should they be considered living organisms? Justify your answer.

2.A scientist discovers a unicellular organism having:

- Cell wall present
- Chlorophyll present
- True nucleus present

In which kingdom should it be placed and why?

3.Explain how classification helps in understanding evolutionary relationships among organisms.

4.Suppose all decomposers disappear from Earth. Predict the consequences on the ecosystem.

COMPUTER SCIENCE

Q1. Draw logic circuit diagrams for:

a) $Y = (A + B).C'$

b) $Y = (A.B) + (B.C')$

c) $Y = (A+B)'+C$

d) $Y = (A.B') + (A'.B)$

Q2. Prepare truth tables for:

a) $Y = (A+B).(A+B')$

b) $Y = (A.B'.C) + (A'.B)$

c) $Y = (A+B).(B+C').(A+C')$

Q3. Answer the following questions:

a) Why are NAND and NOR gates called universal gates?

b) Differentiate between AND gate and OR gate.

c) What is the use of truth tables?

d) Which gate gives output opposite to the input?

Q4. Convert the following numbers:

(a) Decimal to Binary

(i) 128

(ii) 725

(iii) 12.25

(iv) 63.125

(b) Binary to Decimal

(i) 101101

(ii) 111000

(iii)1001.11

(iv)10101.101

(c) Decimal to Octal

(i)36

(ii)512

(iii)63.75

(iv)125.125

(d) Decimal to Hexadecimal

(i)255

(ii)1024

(iii)45.625

(iv)125.125

Q5. What is a variable? Write down rules for defining a variable.

ACCOUNTANCY

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Project Work

1. Source Documents Portfolio

Students will prepare a creative accounting portfolio containing source documents such as cash memos, invoices, debit notes, credit notes, cheques, vouchers, and receipts collected from real or sample business transactions.

2. Accounting Concepts & Source Documents: Timeline scroll/foldable booklet on evolution of accounting from traditional Indian bahi-khata to modern accounting system with folk-art decoration.

Note: Holiday homework is to be done neatly in the class notebook.

BUSINESS STUDIES

BUSINESS STUDIES

Project Work (Any Two – Project No. 2 Compulsory for All Students)

1. Local Business Supply Chain Study

Students will conduct a field-based study of a local business unit such as a retail shop, wholesaler, pharmacy, or e-commerce seller, focusing on procurement, warehousing, transport, and delivery process.

2. Impact of Global Conflicts on International Trade

Research-based project on the effect of global conflicts on logistics, trade routes, shipping cost, insurance premium, availability of goods, and price rise in domestic markets.

3. Quick Commerce vs Traditional Retail

Comparative study of online quick-commerce platforms and traditional retail stores on the basis of speed, inventory, customer convenience, and employment opportunities.

4. Business Services in Daily Life

Project showing the role of banking, insurance, transport, warehousing, and communication services in modern business.

Note: Holiday homework is to be done neatly in the class notebook.

ECONOMICS

1)

Conduct research and prepare a report on popularity of fast food among the children using primary data by-

- Designing questionnaire.
- Collection of data.
- Classification of data.
- Presentation of data collected by the survey.

2)

Make a **Project Work** based on the Topic selected by the students in the class, which will include the following points

- a) Introduction of the topic.
- b) Features of the project
- c) Research Analysis of the project.
- d) Planning activities done during the project, if any.
- e) Observations and findings of the project.
- f) Conclusions (summarized suggestions or findings, future scope of study).
- g) The project should be handwritten.
- h) Paste colored pictures and diagrams, tables.
- i) Prepare the project work according to topic allotted in the class on A4 colored (solid) sheets only.

Note: - Few related topics given for help:

Suggestive List of Projects: Class XI

- Effect on PPC due to various government policies
- Invisible Hand (Adam Smith)
- Opportunity Cost as an Economic Tool (taking real life situations)
- Effect of Price Change on a Substitute Good (taking prices from real life visiting local market)

- Effect on Equilibrium Prices in Local Market (taking real life situation or recent news)
- Effect of Price Change on a Complementary Good (taking prices from real life visiting local market) • Solar Energy, a Cost-Effective Comparison with Conventional Energy Sources
- Bumper Production- Boon or Bane for the Farmer
- Any other newspaper article and its evaluation on basis of economics.
- Any other topics

PSYCHOLOGY

General Instructions:

- All the answers should be done in the psychology notebook.
- Experiment 1 should be done in the practical file.

Q1. Conduct a survey on five different people on their mental health and well-being.

Q2. Watch any one movie from the following and write a review.

A) Inside Out

B) Tare Zameen Par

Q3. Draw a table of Erik Erikson's stages of development.

Q4. Write experiment 1 (The meaningfulness of studying material has an impact on learning) done in the class room in your practical file.

Q5. Read Ch3 and do N.C.E.R.T questions and answers in the notebook.

HISTORY

Project: From Excavation to UN Deliberation

Objective: To analyze how the civilizations studied in Class 11 (like Mesopotamia) form the bedrock of national heritage and how modern nations (for MUN) must protect these historical legacies.

Part 1: The Historical Foundation (Chapter-Linked)

Students must choose one of the following historical focuses based on their syllabus:

Mesopotamian Legacy (Ch: Writing and City Life):

Research the current state of heritage sites in Iraq (ancient Mesopotamia), such as Ur or Uruk.

Task 1: Describe how the invention of writing and urban life is a "universal heritage" and identify the modern threats these sites face today (e.g., conflict or neglect).

Task 2: Discuss how "National Heritage" isn't just buildings, but also the ideas and art that emerged during the transition to the modern world.

Part 2: The MUN "UNESCO Committee" Simulation

Students will act as delegates representing a country involved in these historical regions (e.g., Iraq, Italy, Egypt, or Syria).

PREPARE A SPEECH AND POSTER ON THE ABOVE MENTIONED FOR THE PREPARATION OF THE UPCOMING MUN.

Part 3. A Speech for the GSL (General Speakers List) focusing on: "**Why my country's ancient history is vital for the world's future.**"

3. Prepare 30 one-mark questions from chapter 1 and chapter 2 (Writing in the copy)

POLITICAL SCIENCE

PROJECT

'The Constitution is usually destroyed by some members at the expense of other' in the context of the statement what efforts have been made to strengthen the Indian Constitution

What all points can be included in this according to your view point?

POWER POINT PRESENTATION

"Elections 2026 is the flavour of the season"

Points to be included:

Young voters message: Remain informed, teach yourself about the candidates, their policies, and the issues in question, before voting.

Prepare a presentation on the above topic to present it individually after the vacations.

ACTIVITY

Fundamental Rights in action

Click 6 pictures showing you using article 14,19,21 etc. caption each photo and write 3-4 lines in your political science copy.

MOVIE REVIEW

Write down the review of "Article 15" Movie in 200 words in your notebook.

BANKING

Students to make a power point presentation / assignment / practical file / report. Instructor shall assign them any outlet to study the elements in retailing.

Suggested list of Practical –

1. Visit nearest branch of any Bank and collect details regarding different modes of transferring funds from one person to another. Also collect sample documents/forms for each of such modes of transfer. Tabulate the advantages and disadvantages for each mode of payment system.
2. Download the Balance Sheet of a public sector bank and a private sector bank as at 31st March of current year from their websites and compare the composition of their deposits like % of demand deposits to total deposits, Profitability, composition of their loans, Total interest earned etc. and comment which sector bank is better managed from profit point of view.
3. List various documents to be submitted by the customers for applying for each product. You can obtain sample forms from any of the banks.
4. Prepare a comprehensive report for each of these banks covering the following: a) Retail banking product (One asset and one liability product) best suited for the people in different stages of the cycle e.g. a young executive who recently joined the job, a housewife, an elderly lady with no dependents, A retired person, A member of armed forces etc. b) List various documents to be submitted by the customers for applying for each product. You can obtain sample forms from any of the banks.
5. Visit the websites of five different commercial banks (Three Public sector and two private sector banks) and get the details of the various Retail Banking Products offered by them.

TOURISM

Write a detailed description of any monument that comes under *Archaeological Survey of India (ASI)*.

Note:

- The description should consist of the following details:
 1. Monument's Location
 2. Monument's Historical Importance
 3. Tourism development at the place
 4. Present role and future plans of ASI for the Monument.
- Choose ANY ONE of the following options for making your Project :
 1. Make power point slides (8-10 slides)
 2. Make a document (4-5 pages)
 3. Make a video (3-4 minutes)

PHYSICAL EDUCATION

PRACTICAL	ACTIVITY								
<p>Practical-1: Fitness tests administration. (SAI Khelo India Test)</p>	<p>Activity- 1: Perform the Following Fitness Tests: Students will perform the following test at home/ground with the help of parents or friends.</p> <table border="1" data-bbox="751 674 1481 981"> <thead> <tr> <th>S.No</th> <th>Fitness Test</th> <th>Purpose</th> <th>Equipment Required</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>BMI Measurement</td> <td>Body composition</td> <td>Weighing machine & measuring tape</td> </tr> </tbody> </table>	S.No	Fitness Test	Purpose	Equipment Required	1.	BMI Measurement	Body composition	Weighing machine & measuring tape
S.No	Fitness Test	Purpose	Equipment Required						
1.	BMI Measurement	Body composition	Weighing machine & measuring tape						
<p>Practical-2: Procedure for Asanas, Benefits & Contraindication for any two Asanas for each lifestyle disease</p>	<p>Activity- 2: ART INTEGRATION</p> <p>Start an awareness campaign on importance of yoga in daily life through regular day Health Camp in your home.</p> <p>Awareness through poster making</p> <p>Asana competition</p>								
<p>Practical-3: Anyone one IOA recognized Sport/Game of choice. Labelled diagram of Field & Equipment. Also mention its Rules, Terminologies & Skills.</p>									