



D.A.V CENTENARY PUBLIC SCHOOL, CHANDER NAGAR, GZB

HOLIDAY'S HOMEWORK SESSION:2026-27

CLASS: X



D.A.V CENTENARY PUBLIC SCHOOL
CHANDER NAGAR, GHAZIABAD
HOLIDAYS HOME WORK, CLASS X (2026-27)

SCIENCE

TASK 1: Write a short essay on the topics:

1. Artificial intelligence in healthcare
2. Can technology replace human intelligence
3. Impact of human activities on ecosystems.

NOTE: The content should be written in A4 size coloured sheets and of minimum 120 words.

The sheet must have decorated heading of the topic and well defined margins.

TASK 2: ACTIVITY WORK

Perform the following activity at home with adult supervision:

- Take a small amount of vinegar in a bowl.
- Add a pinch of baking soda to it.
- Observe carefully and note down:
 - Changes observed
 - Gas evolved
 - Type of reaction

Write your observations in 4–5 lines.

TASK 3: POSTER PRESENTATION

1. “Rust Never Sleeps” – Corrosion Awareness
2. pH Scale and Its Importance
3. “pH and Health”
4. Green energy for future

TASK 4: PROJECT based learning.

Prepare **ONE** working model from the list of projects given below:

1. Electricity and Electric Circuits
2. Magnetic Effects of Electric Current

3. Sustainable Development and Science
4. Reflection of light by mirrors
5. Refraction of light by lenses

Special Instructions: The model should include Charts /Printed pictures /Newspaper articles

- Creativity and presentation will carry extra marks.
- Late submission may lead to deduction.

संस्कृत

1. 'भारतस्य संस्कृतिः' इति विषये एकं सुन्दरं चित्रसहितं परियोजनाकार्यं निर्मातव्यम्।

2. (संस्कृतश्लोकसंग्रहः) दश (१०) नैतिकशिक्षाप्रदाः संस्कृतश्लोकाः संगृह्य लिखन्तु।

प्रत्येकस्य श्लोकस्य—

हिन्दी-अर्थः, कठिनशब्दानां अर्थाः, जीवनोपयोगिता अपि लिखन्तु।

3. मम विद्यालयः (निबन्धः)

“मम विद्यालयः” इति विषये लगभग १५० शब्देषु संस्कृतभाषायां निबन्धं लिखत।

4. पर्यावरणसंरक्षणम् (अनुच्छेदलेखनम्)

“पर्यावरणसंरक्षणम्” इति विषये 10-15 वाक्यानि संस्कृते लिखत।

ENGLISH

Complete the following writing tasks in your English notebook:

1 Article Writing: The integration of Artificial Intelligence (AI) in education is changing how students learn. Write an article in 120–150 words for your school magazine titled "AI in Classrooms: A Boon or a Bane?". Use your own ideas alongside traditional classroom values to present a balanced view.

2 Letter to the Editor: Due to the scorching summer heat, many stray animals in your locality are suffering from dehydration and lack of shelter. Write a letter to the Editor of a local daily in 100–120 words drawing attention to this issue and suggesting simple steps citizens can take (like leaving water bowls outside). You are Amit/Amita from Delhi.

3. Practice Unit 1 & 2 from the Main course Book.

4. Activity: Choose a dynamic character from OZYMANDIAS/JULIUS CAESAR. Create a "Character Mask" or a simple prop using recycled materials (cardboard, old newspapers, paints) that symbolizes their personality.

SOCIAL SCIENCE

PART – 1: PROJECT WORK

Prepare a handwritten project (5 pages) on A-4 sheets on any one topic:

Consumer Awareness

or

Social Issues/Popular Struggles and Movements

or

Sustainable Development

Guidelines:

Include Student Profile, Acknowledgement, Index, Bibliography, maps, diagrams, illustrations, newspaper cuttings, Try to integrate different forms of art in the project.

Project should be based on India and prepared using the Social Science NCERT book.

PART – 2: INTER DISCIPLINARY PROJECT

Topics: The Making of a Global World (History), Globalisation (Economics) and Lifelines of National Economy (Geography)

Roll No. 1–10

Report Writing: The Role of Waterways and Airways in the Post-World War II Era – A Global and Indian Perspective.

Roll No. 10–20

Case Study: Prepare a case study of an Indian industry affected by globalisation (Textile, IT, Automobile, etc.).

Roll No. 20–30

Map Activity – “India’s Role in a Globalised World”

"MapQuest: India's Role in a Globalised World"

On a World Physical Map, mark the following:

Historical Trade Routes:

-Silk Route – connecting China to Europe via Central Asia

-Spice Route – connecting India and Southeast Asia to Europe via Arabian Sea.

Modern Trade Routes:-Suez Canal Route – connecting Europe and Asia

- Indian Ocean Trade Route – linking India, Middle East, and Southeast Asia

On a Political Map of India, show the following:

-Major Ports: Mumbai, Chennai, Kolkata, Visakhapatnam, Kochi, Kandla, Paradip

- International Airports: Delhi (Indira Gandhi), Mumbai (Chhatrapati Shivaji), Bengaluru, Hyderabad, Kolkata, Chennai

Roll No. 30–40

Poster/Brochure Making: Design a handmade or digital poster on “Global India, Connected India.”

PART – 3: WRITING SECTION

1. Write an essay in 400–500 words on “Rainwater Harvesting: A Solution to Water Crisis” in the Geography notebook. The work should be neat and written in your own words.

2. Write an essay on power sharing in 400-500 words in the Political Science Notebook.

MATHS

All the work should be compiled and submitted in a single folder

1. Graph Activity: Linear Equations on a Single Graph

Activity:

- Draw the graphs of the following 12 linear equations on the same graph sheet.
 $x + y = 2$; $x - y = 0$; $2x + y = 4$;
 $x + 2y = 6$; $3x + y = 3$; $x - 2y = 4$; $2x + 3y = 12$;
 $3x - 2y = 6$;
- $y = x + 1$; $y = 2x - 3$; $x + y = 8$; $y = -4$

Instructions:

- Prepare a solution table for each equation with at least 3 ordered pairs.
- Plot all lines using different colours.
- Shade the regions formed between different lines using light colours.
- Label every line clearly.

- Use graph paper and maintain proper scale.

2.Mind Maps on A4 Size Sheets

Prepare colourful mind maps for the following chapters:

- Real Numbers
- Polynomials
- Pair of Linear Equations in Two Variables
- **Include:**
- Important formulas
- Definitions
- Key concepts
- Flowcharts/examples
- *Diagrams and colours*
- **Instructions:**
- *One chapter per sheet.*
- *Use creative presentation ideas.*

3.Real-Life Word Problems

Prepare 5 self-made word problems based on Pair of Linear Equations in Two Variables from situations around you.

- Example Areas:

Shopping ,School canteen ,Travel ,Mobile recharge plans ,Age problems ,Tickets and fares ,Fruits and vegetables

Instructions:

- Frame the problem clearly.
- Form the equations.
- Solve using any method.
- Write the final answer with proper statement.

4 Concept Cartoon on HCF and LCM

Create a colourful cartoon strip/comic to explain the concept and real-life applications of HCF and LCM.

Task:

- Design a conversation between cartoon characters discussing a situation where HCF or LCM is used in daily life.
- Use speech bubbles, illustrations, and mathematical calculations to explain the concept clearly.
- Include at least one example each of: HCF ,LCM
- *Solve the example neatly and explain its practical use.*
- **Instructions:**
- *Draw 4–6 cartoon frames.*
- *Use colours and creative dialogues.*
- *Write a short conclusion explaining the importance of HCF and LCM in real life.*
- *Complete the activity on A3/A4 size sheets*

5.Activity: Combined Solids Around Us

Task:

Identify and draw objects from our surroundings that are formed by combining two or more three-dimensional solids.

Observe objects around you and draw figures of any 10 objects made by combining two or more solids.

Examples:

- Tent
(Cylinder + Cone)
- Top/Ice Cream Cone
(Cone + Hemisphere)
- Water Tank
(Cylinder + Hemisphere)
- House
(Cuboid + Triangular Prism)
- Candle
(Cylinder + Cone)

- Rocket
(Cylinder + Cone)
- Rolling pin

Instructions:

- Draw neat labelled diagrams of the objects.
- Mention the solids used in each figure.
- Colour the diagrams creatively.
- Write the names of the combined solids below each figure.
- Complete the activity on A4 /A3 sheet

Information Technology

Written Activities

- Write an **essay (200 words)** on “The role of communication in career success.”
- Draft a **formal email** to your teacher requesting feedback on your project.
- Prepare a **dialogue (10–12 lines)** between two students discussing how effective communication helps in resolving conflicts. Creative Tasks
- Design a **poster** on “Barriers to Communication and How to Overcome Them.”
- Create a **comic strip** showing a situation where miscommunication leads to a funny or serious problem.
- Collect 5 examples of **non-verbal communication** (gestures, posture, tone of voice, facial expressions, eye contact) and explain their importance.

Reflection Task

- Maintain a **communication diary** for one week:
- Note one situation each day where communication was effective or ineffective.
- Suggest how you could improve in that situation.
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HINDI

1. निम्नलिखित साहित्यकारों के आधार पर एक सुंदर एवं रचनात्मक परियोजना कार्य तैयार कीजिए-

- कबीरदास
- मीराबाई
- सुमित्रानंदन पंत
- प्रेमचंद

प्रत्येक साहित्यकार के लिए निम्न बिंदुओं पर जानकारी संकलित कर परियोजना कार्य पूर्ण कीजिए-

- जीवन परिचय (जन्म शिक्षा एवं साहित्यिक योगदान)
- प्रमुख रचनाएँ (कविता, कहानी, उपन्यास आदि)

- साहित्यिक विशेषताएं (भाषा शैली, भाव पक्ष, विचारधारा, समाज एवं मानवता के प्रति दृष्टिकोण)
- पाठ्यपुस्तक में शामिल रचना का सार (स्पर्श पाठ्यपुस्तक के आधार पर)
- प्रेरणादायक विचार/ प्रसिद्ध पंक्तियाँ (प्रत्येक साहित्यकार की दो-तीन प्रसिद्ध पंक्तियाँ)
- वर्तमान समय में प्रासंगिकता (आज की पीढ़ी इनके विचारों से क्या सीख सकती है?)

निर्देश: आवरण पृष्ठ (कवर पेज) अनुक्रमणिका (इंडेक्स) चित्र एवं सजावट स्वलिखित सामग्री, निष्कर्ष, धन्यवाद ज्ञापन बिंदुओं के आधार पर परियोजना तैयार कीजिए।

2. निम्नलिखित विषय पर लगभग 200 शब्दों में अनुच्छेद लिखिए –

- i) अच्छे नागरिक के कर्तव्य
- ii) गाँव और शहर का जीवन