

पीएम श्री केन्द्रीय विद्यालय क्रमांक 2 खड़गपुर

ग्रीष्मकालीन अवकाश गृहकार्य - 2026-27

कक्षा - 9

विषय - हिन्दी

प्रश्न 1 उपसर्ग और प्रत्यय की परिभाषा बताते हुए उनमें अन्तर उदाहरण सहित समझाइए।

प्रश्न 2 संज्ञा, सर्वनाम, विशेषण और क्रिया की परिभाषा बताते हुए उसके भेद उदाहरण सहित समझाइए।

प्रश्न 3 वाक्य की परिभाषा बताते हुए अर्थ के आधार पर उसके भेद व दो-दो उदाहरण लिखकर समझाइए।

प्रश्न 4 अलंकार की परिभाषा बताते हुए अनुप्रास, यमक और श्लेष अलंकार के बारे में बताते हुए दो-दो उदाहरण लिखकर समझाइए।

प्रश्न 5 अपने मित्र को निबंध प्रतियोगिता में प्रथम आने पर बधाई देते हुए एक पत्र लिखिए।

प्रश्न 6 विद्यालय के प्राचार्य को खेल सामग्री उपलब्ध कराने हेतु एक प्रार्थना पत्र लिखिए।

प्रश्न 7 बस यात्रा के दौरान दो मित्रों (राम व श्याम) के बीच की गई बातचीत को 80 शब्दों में एक संवाद लिखिए।

प्रश्न 8 निम्नलिखित सभी विषयों पर संकेत बिंदुओं के आधार पर लगभग 120-120 शब्दों में अनुच्छेद लिखिए :

(i) साइबर सुरक्षा : जागरूकता ही समाधान

*साइबर सुरक्षा का अर्थ *वर्तमान में चर्चा का कारण *जागरूकता का प्रभाव

नोट-सभी विद्यार्थी ग्रीष्मकालीन अवकाश गृहकार्य को एक पतली कॉपी में करेंगे।

OBJECTIVES

- Strengthen concepts
- Develop logical thinking
- Apply maths in real life
- Improve problem solving skills

CLASS 9 - MATHEMATICS

SUMMER HOLIDAY HOMEWORK

MAY - JUNE 2026

Think • Solve • Apply • Analyze • Achieve



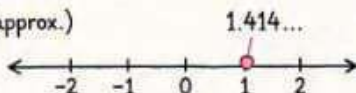
SECTION A - NUMBER SYSTEM

1. Task 1: Real Number Exploration

Write any 5 irrational numbers.

For each:

- Express on number line (approx.)
- Write decimal expansion



2. Task 2: Laws of Exponents

Create a formula chart.

Include all exponent laws and one example for each.

Example
 $a^m \times a^n = a^{m+n}$
 $2^3 \times 2^2 = 2^5$

SECTION B - ALGEBRA

3. Task 3: Polynomials Activity

Identify polynomials around you.

Write:

- Type (monomial / binomial / trinomial)
- Degree

Examples:

$$5x^2$$

$$3x + 4$$

$$2x^2 + 3x + 1$$

4. Task 4: Factorisation

Solve 10 problems.

Also explain method used.

METHODS

- Common factor
- Grouping
- Identities

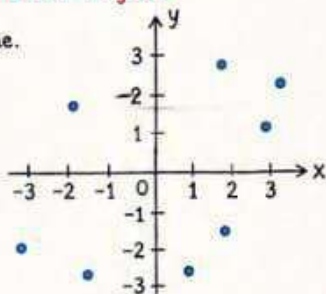
SECTION C - COORDINATE GEOMETRY

5. Task 5: Cartesian Plane Project

Draw a coordinate plane.

Plot 10 points.

Identify the quadrant for each point.

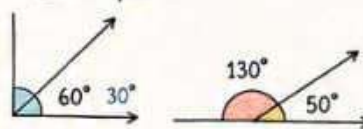


SECTION D - GEOMETRY

6. Task 6: Angle Properties

Draw diagrams to show:

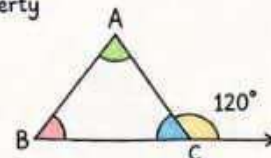
- Complementary angles
- Supplementary angles
- Linear pair



7. Task 7: Triangle Theorems

Write and illustrate:

- Angle sum property
- Exterior angle property



SECTION E - DATA HANDLING

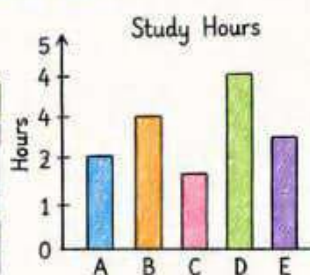
8. Task 8: Statistics Project

Collect data (e.g., study hours of 5 students).

Find:

- Mean
- Represent using graph

Student	Hours (per day)
A	2
B	3
C	1
D	4
E	2



SECTION F - REAL LIFE MATHS

9. Task 9: Budget Planning

Prepare a monthly budget.

Include:

- Income
- Expenses
- Savings



10. Task 10: Shopping Maths

Prepare a bill.

Calculate:

- Discount
- Final amount



SECTION G - THINKING & ANALYSIS

11. Task 11: Case Study

Solve a real-life maths situation.

Example:

A car travels 240 km in 4 hours. Find its speed.



12. Task 12: Puzzle & Patterns

Solve the following pattern:

2, 5, 10, 17, 26, ?

Create your own pattern and share.



SECTION H - PROJECT WORK

13. Task 13: Maths Scrapbook

Include:

- Formulas
- Graphs
- Theorems
- Real-life examples



14. Task 14: Maths Journal

Write daily:

- One concept
- One problem
- One learning



SUBMISSION GUIDELINES

- ✓ Maintain a neat and well-organized file.
- ✓ Show proper steps clearly.
- ✓ Use diagrams and colours.
- ✓ Focus on understanding.
- ✓ Submit after holidays.

WHY THIS HOMEWORK IS SPECIAL

- ♥ Helps you think logically.
- ♥ Applies maths in real life.
- ♥ Builds strong conceptual base.
- ♥ Enjoy learning through activities.



REMEMBER

- ★ Be regular
- ★ Be curious
- ★ Be consistent
- ★ Practice daily
- ★ Grow every day!



MATHS IS ALL AROUND US.
EXPLORE IT, ENJOY IT,
AND MASTER IT!



LEARN TODAY, LEAD TOMORROW!

PM SHRI KENDRIYA VIDYALAYA NO-2, KHARAGPUR

ग्रीष्मावकाशहेतु गृहकार्यम्

कक्षा- नवमी

विषय – संस्कृत

- 1.शब्दरूपाणि-नर,फल, लता,साधु, मुनि,वधू, नदी,वारि,पितृ,मातृ,अस्मद्,युष्मद्, किम् (पुल्लिङ्ग, स्त्रीलिङ्ग नपुंसक लिङ्ग)
- 2.धातुरूपाणि-भू,गम,स्था,दृश्,पा, वद् हस् सेव,लभ् कृ, क्रीड,अस्
- 3.1-100संख्यावाचक पदानि
- 4.स्थानवाचक,कालवाचक च अव्यय पदानि
- 5.चित्रवर्णम्(4) चार करना है
- 6.स्वसंधि
- 7.प्रत्यय-तुम्हून्,ल्यप्,शतृ, शान्त
- 8.उपपदविभक्ति

1. Prepare **MULTIPLE CHOICE QUESTIONS** on the following chapters (TEN questions from each chapter).[DO IT IN SCIENCE HW COPY]

1. **CELL-BUILDING BLOCK OF LIFE (CHAPTER 2)**

2 **EXPLORING MIXTURE AND THEIR SEPARATION (CHAPTER 5)**

2. Write the following experiments. [DO IT IN SCIENCE PRACTICAL FILE]

EXPERIMENT NO. 1: Preparation of stained temporary mounts of (a) onion peel, (b) human cheek cells & to record observations and draw their labelled diagrams.

EXPERIMENT NO. 2: Preparation of:

- a) A true solution of common salt, sugar and alum [EXPERIMENT NO.3A]
- b) A suspension of soil, chalk powder and fine sand in water [EXPERIMENT NO.3B]
- c) A colloidal solution of starch in water and egg albumin/milk in water [EXPERIMENT NO.3C]

And distinguish between these on the basis of

- Transparency
- Filtration criterion
- Stability [EXPERIMENT NO. 3D]

EXPERIMENT NO.3: Preparation of

- a) A mixture
- b) A compound

Using iron fillings and sulphur powder and distinguishing between these on the basis of:

- (i) Appearance i.e homogeneity and heterogeneity
- (ii) Behaviour towards a magnet
- (iii) Behaviour towards carbon disulphide as a solvent
- (iv) Effect of heat

EXPERIMENT NO. 4: Perform the following reactions and classify them as physical or chemical changes:

- a) Iron with copper sulphate solution in water
- b) Burning of magnesium ribbon in air
- c) Zinc with dilute sulphuric acid
- d) Heating of copper sulphate crystals
- e) Sodium sulphate with barium chloride in the form of their solutions in water.

3.ART INTEGRATED PROJECT: [DO IT IN SCRAP BOOK]

DO ANY ONE TOPIC,ALONG WITH COLLAGES FROM DISCARDED PACKAGING OR ANY WASTE MATERIAL TOPIC:

A. AIR POLLUTION

B. WATER POLLUTION

C. SOIL POLLUTION

D. DEPLETION OF OZONE LAYER (MINIMUM TEN PAGES SHOULD BE THERE UNDER THE HEADING CONTENT)

*File format will be provided to you in class group

4. COMPLETE TEXT BOOK QUESTIONS OF CHAPTER 2 AND 5 IN HOME WORK COPY

Write the following questions:-

5 MARKS

- ① Explain the theory of plate tectonic in detail.
- ② Describe different types of plate boundaries with examples.
- ③ Explain the role of plate tectonics in the formation of major landforms of the earth.
- ④ Differentiate between weathering and erosion.
- ⑤ Describe the factors affecting the weathering.
- ⑥ Explain chemical weathering processes with examples.
- ⑦ Explain mechanical and biological weathering processes.

3 MARKS

- ⑧ Write the characteristics of the mantle.
- ⑨ How do scientists know about the interior of the earth?

2 MARKS

- ⑩ What is asthenosphere?
- ⑪ What is meant by NIFE?
- ~~⑫ What is meant by~~
- ⑫ What are the two parts of the core?
- ⑬ Write the differences between continental crust and oceanic crust.

- 14) What is vulnerability?
- 15) Define natural disaster with one example.
- 16) What is rehabilitation?
- 17) What is a man-made disaster?
- 18) What is early warning system?
- 19) Differentiate between hazard and disaster.
- 20) Describe the agents of erosion and explain how each agent contributes to shaping the Earth's surface! 5 marks

A) Read about Democracy (Meaning, features and types of Democracy)

- Roots of democracy in India.
- Democratic systems in the world.

⇒ After reading write 20 MCQ.

B) Write short notes on - [120 words]

1) Climate

2) Resources

3) Elections

C) Map Work -

- States and UTs of India
- Rivers of India.

D

Prepare a project on Disaster Management.

Your project should include :

- Acknowledgement
- Index
- Introduction to disasters.
- Types of disasters.
- Causes of disasters.
- Effects of disasters with prominent references.
- Phases of Disaster management.
- Safety practices to be followed to prevent disasters.
- Roles of different agencies and government.
- Ways of creating awareness among people.
- Conclusion.
- Bibliography.

PM SHRI KV NO.2 KHARAGPUR

Summer Holiday Homework – English (Class 9, NCERT *Kaveri*)

Section A: Reading Skills

1. Read any **3–4 chapters** from your *Kaveri* textbook.
2. For each chapter, write:
 - Title
 - Author/Poet
 - Main Characters
 - Summary (120–150 words)
 - Theme/Message

Section B: Writing Skills

1. Paragraph Writing (any 3)

(120–150 words each)

- Importance of Discipline
- Social Media: Boon or Bane
- A Visit to a Historical Place
- My Favourite Teacher
- Environmental Pollution

2. Article Writing

Write an article (150–180 words) on:

“Importance of Time Management for Students”

3. Letter Writing (Formal)

Write a letter to the Principal requesting:

“Permission to organize a cleanliness drive in your school”

4. Diary Entry

Write a diary entry about:

“An unforgettable day during your summer vacation”

Section C: Grammar Practice

1. Tenses

Write 5 sentences each in:

- Present Tense
- Past Tense
- Future Tense

2. Active and Passive Voice

Change into passive voice:

1. She wrote a poem.
2. They are playing cricket.
3. He will complete the work.

3. Direct and Indirect Speech

Change into indirect speech:

1. He said, "I am happy."
2. She said, "I have finished my homework."

4. Modals

Fill in the blanks using suitable modals (can, could, must, should, may):

1. You ____ respect your elders.
2. ____ I come in?
3. We ____ finish our work on time.

Section D: Creative Work

1. Poster Making

Make a poster on:

- Save Water
- OR**
- Say No to Plastic

2. Story Writing

Write a story based on the idea:

"Where there is a will, there is a way"

3. Vocabulary Enhancement

- Learn and write **20 new words**
- Include meanings and sentences

Section E: Speaking & Listening

Prepare a speech (2–3 minutes) on:

- Importance of Education
- OR**
- Role of Youth in Nation Building