

OBJECTIVES

- ★ Develop scientific inquiry and reasoning
- ★ Strengthen conceptual understanding
- ★ Promote experimental learning
- ★ Apply science in real-life situations

CLASS 9 - SCIENCE

SUMMER HOLIDAY HOMEWORK

MAY - JUNE 2026

♥ Explore • Understand • Experiment • Analyse • Apply ♥



SECTION A - PHYSICS (MOTION & FORCE)

1. Task 1: Motion Observation Project

Observe movement of any object (cycle / car / person).

Record:

- Distance covered
- Time taken
- Calculate speed

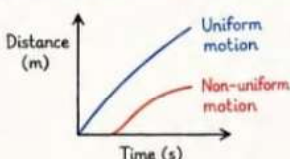


2. Task 2: Graph Activity

Plot a distance-time graph.

Analyse:

- Uniform motion
- Non-uniform motion



SECTION B - CHEMISTRY (MATTER IN OUR SURROUNDINGS)

3. Task 3: States of Matter Experiment

Perform simple activity.

Observe:

- Melting (ice)
- Evaporation (water)

Write:

- Observation
- Conclusion



4. Task 4: Case-Based Question

Explain:

Why do clothes dry faster in summer than winter?

(Answer in 120-150 words)

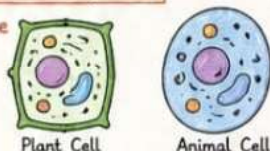


SECTION C - BIOLOGY (CELL & TISSUES)

5. Task 5: Diagram Practice

Draw and label:

- Plant cell
- Animal cell



6. Task 6: Real-Life Connection

Write:

Why is cell called the basic unit of life?



SECTION D - ENVIRONMENTAL SCIENCE

7. Task 7: Natural Resources Study

Identify resources used at home.

Classify:

- Renewable Resources
- Non-renewable Resources



8. Task 8: Climate Observation

Record weather for 10 days.

Analyse pattern and write conclusion.



SECTION E - THINKING & ANALYSIS

9. Task 9: Reasoning Questions

Answer:

- Why does ice float on water?
- Why do gases diffuse faster?



10. Task 10: Case Study

Study a daily life situation.

Example: Pressure cooker / Refrigerator

Explain scientific principle.



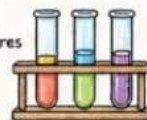
SECTION F - EXPERIMENT & ACTIVITY

11. Task 11: Home Experiment

Perform one experiment.

Examples:

- Separation of mixtures
- Density test



Write:

- ★ Aim
- ★ Materials Required
- ★ Procedure
- ★ Observation
- ★ Conclusion



SECTION G - CREATIVE & APPLICATION

12. Task 12: Poster / Infographic

Make a poster / infographic on:

- Save Environment
- Scientific Innovations



13. Task 13: Model Making

Make a model of:

- Atom structure / Cell / Water cycle



SECTION H - PROJECT WORK (MULTIDISCIPLINARY)

14. Task 14: Science Scrapbook

Include:

- Diagrams
- Experiments
- Facts
- Daily life applications



15. Task 15: Science Journal

Write daily:

- One observation
- One scientific fact
- One question



TIPS

- ✓ Be curious
- ✓ Be creative
- ✓ Be regular
- ✓ Be neat
- ✓ Think scientifically



SUBMISSION GUIDELINES

- ✓ Maintain a well-structured practical file.
- ✓ Draw neat diagrams with labels.
- ✓ Focus on understanding, not memorizing.
- ✓ Submit after holidays.



WHY THIS HOMEWORK IS SPECIAL

- ♥ Helps you think scientifically.
- ♥ Learn by doing.
- ♥ Connects theory with real life.
- ♥ Builds strong conceptual foundation.



REMEMBER

- ★ Observe more.
- ★ Question more.
- ★ Experiment more.
- ★ Learn more.
- ★ Grow more!



♥ SCIENCE IS NOT JUST A SUBJECT, IT IS A WAY OF THINKING! ♥

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



%

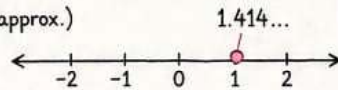
SECTION A - NUMBER SYSTEM

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

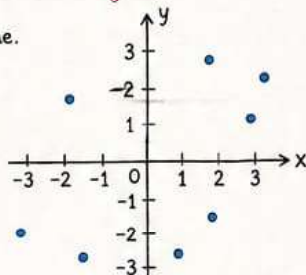
SECTION C - COORDINATE GEOMETRY

5. Task 5: Cartesian Plane Project

Draw a coordinate plane.

Plot 10 points.

Identify the quadrant for each point.

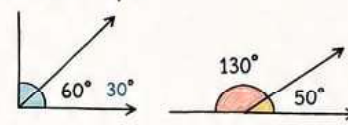


SECTION D - GEOMETRY

6. Task 6: Angle Properties

Draw diagrams to show:

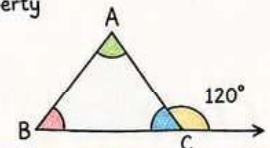
- Complementary angles
- Supplementary angles
- Linear pair



7. Task 7: Triangle Theorems

Write and illustrate:

- Angle sum property
- Exterior angle property



SECTION E - DATA HANDLING

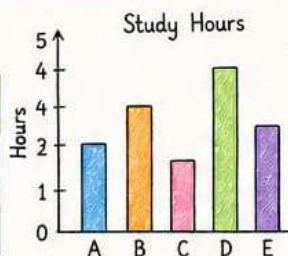
8. Task 8: Statistics Project

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.

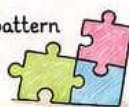


12. Task 12: Puzzle & Patterns

Solve the following pattern:

2, 5, 10, 17, 26, ?

Create your own pattern and share.

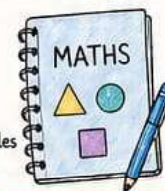


SECTION H - PROJECT WORK

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!

Neelam Sharma
Yesterday, 7:33 pm



कक्षा - नवीं

ग्रीष्मकालीन गृहकार्य

Competency Based

भाषा हमारी पहचान है,
इसे सीखना और
सिखाना हमारा
सम्मान है।

1 शब्द ज्ञान

- ★ प्रतिदिन एक नया शब्द लिखें।
- ★ उसका अर्थ लिखें।
- ★ उस शब्द का वाक्य प्रयोग करें और उसे पढ़ें।

★ Competency: भाषा ज्ञान, शब्द भंडार, अभिव्यक्ति कौशल, पठन कौशल

2 कहानी समीक्षा

प्रेमचंद जी की कोई कहानी पढ़कर उसकी समीक्षा अपने शब्दों में लिखें।
(पुस्तक का नाम, लेखक, कहानी का सार, क्या अच्छा लगा, क्या नया सीखा आदि।)

★ Competency: पठन कौशल, चिंतन कौशल, लेखन कौशल, मूल्यांकन कौशल

3 साहित्यकार और मानचित्र

हिंदी के किन्हीं 5 प्रमुख साहित्यकारों के जन्मस्थलों के नाम लिखकर मानचित्र में उस स्थान व राज्य को चिह्नित करें।

★ Competency: ज्ञानात्मक कौशल, मानचित्र कौशल, अनुसंधान कौशल

4 ई-मैगजीन के लिए लेखन

ई-मैगजीन के लिए कोई कविता, कहानी या लेख लिखिए।

★ Competency: सृजनात्मक कौशल, लेखन कौशल, डिजिटल साक्षरता

5 यात्रा वृत्तांत

ग्रीष्मकालीन अवकाश में की गई यात्रा के बारे में एक यात्रा वृत्तांत लिखें। आप वृत्तांत यात्रा की शुरुआत से लेकर वापसी तक के अनुभवों को शामिल कर सकते हैं।

★ Competency: अनुभवात्मक लेखन, अभिव्यक्ति कौशल, वर्णन कौशल

6 पोर्टफोलियो तैयार कीजिए

अपने सभी कार्यों को सुंदर रूप से सजाकर एक पोर्टफोलियो तैयार कीजिए।
(कवर पेज, अनुक्रमणिका और व्यक्तिगत जानकारी सहित)

★ Competency: संगठन कौशल, प्रस्तुतीकरण कौशल, आत्म-प्रबंधन कौशल

7 विज्ञापन गतिविधि

- हिंदी के 2 विज्ञापन अपनी फाइल में लगाएं।
- इसके साथ ही 2 विज्ञापन स्वयं बनाएं (किसी भी विषय पर)।

स्वयं बनाए विज्ञापन

जल है तो कल है

स्वच्छ भारत सुंदर भारत

★ Competency: रचनात्मक कौशल, डिजाइन कौशल, संचार कौशल, दृश्य साक्षरता

8 तिब्बत पीआर परियोजना

तिब्बत के रहन-सहन, खानपान, वेशभूषा और भौगोलिक परिस्थिति पर पीआर परियोजना तैयार करें।

- ✓ चित्रों का उपयोग करें
- ✓ जानकारी को श्रेणियों में बांटें
- ✓ आकर्षक प्रस्तुति दें

★ Competency: अनुसंधान कौशल, जानकारी संग्रहण, प्रस्तुतीकरण कौशल, सांस्कृतिक समझ

सामान्य निर्देश

- ✓ साफ-सुथरा और सुंदर कार्य करें।
- ✓ अपने शब्दों में लिखें।
- ✓ चित्र, रंग और रचनात्मकता का उपयोग करें।
- ✓ समय पर कार्य पूर्ण करें।

हर दिन थोड़ा सीखें,
हर दिन खुद को बेहतर बनाएं।

पढ़ो... सोचो... लिखो...
और अपनी प्रतिभा निखारो!



← Reply

THE CRITICAL ANALYST'S RESEARCH LAB: CLASS 9 SUMMER ENGLISH QUEST

Kendriya Vidyalaya No. 2 Dhanbad

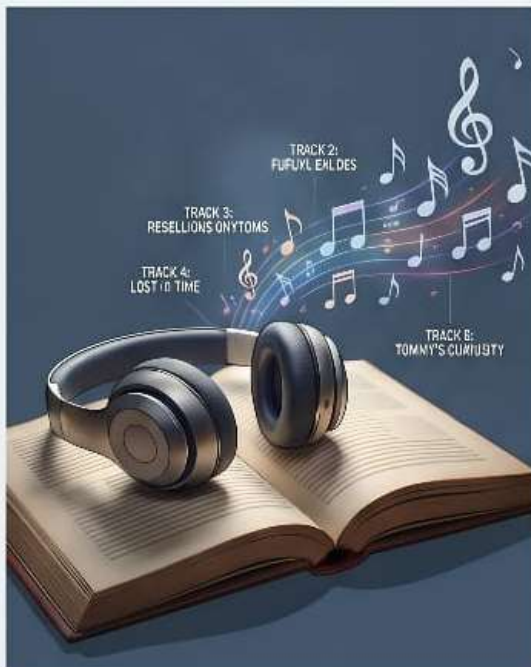
Overview

The overarching theme for the summer, focusing on investigation, research, and deep literary analysis.

Class 9 English Summer Holiday Homework (Session 2026-2027)

TASK 2: THE LITERARY PLAYLIST

Curate a Character's Soul. Select a character from the textbook (e.g., Margle or Tommy) and create a 5-song "Spotify Playlist" reflecting their inner feelings, including a 2-line justification for each track.



"Think deeply, question everything, and write with purpose."

Enjoy your summer of discovery.

TASK 1: THE FAKE NEWS FORENSIC LAB

Become a Media Detective. Find a sensational news headline, research the facts, and produce a "Fact-Check Report" identifying three biases or logical fallacies in the original piece.



TASK 3: THE UNHEARD VOICES MONOLOGUE

Step Into the Shadows. Choose a minor character from a story read in class and write a 300-word monologue revealing their internal thoughts during the story's main events.



SST Class 9 – Holiday Homework

Holiday Homework

1. Discuss the meaning of society and explain how relationships and institutions together shape social life.
2. Explain how social science connects daily life with classroom learning.
3. Give some examples to show how real life problems require more than one social science discipline.
4. Explain the scope of social science by describing the roles of Geography, History, Political Science and Economics and explain how these disciplines connect and overlap in real life situation.
5. Differentiate between Paleolithic and Neolithic age.
6. Print out the main features of Neolithic revolutions.
7. Where have Paleolithic tools, Mesolithic tools and Neolithic found in India. Draw some pictures of these tools.



READ-ONLY – This is an older file format. T...



Class 9 AI Holiday Homework

1. Aman is working on a school project with his classmates. He listens carefully to others, speaks politely, and shares ideas clearly.

Question: Which communication skills are Aman showing? Explain why communication skills are important in teamwork.

2. During an online class, a student sends unclear messages in the group chat, causing confusion among classmates.

Question: What mistakes in communication are being made here? Suggest two ways to improve communication.

3. A smart chatbot on a shopping website answers customer questions automatically.

Question: What is Artificial Intelligence (AI)? Explain how the chatbot uses AI to help customers.

4. AI systems learn from data before making decisions. A school wants to create an AI system to predict students' performance in exams.

Question: What type of data may be needed to train this AI system? Why should the data be



Print Layout



Headings



Edit



Share



Read Aloud



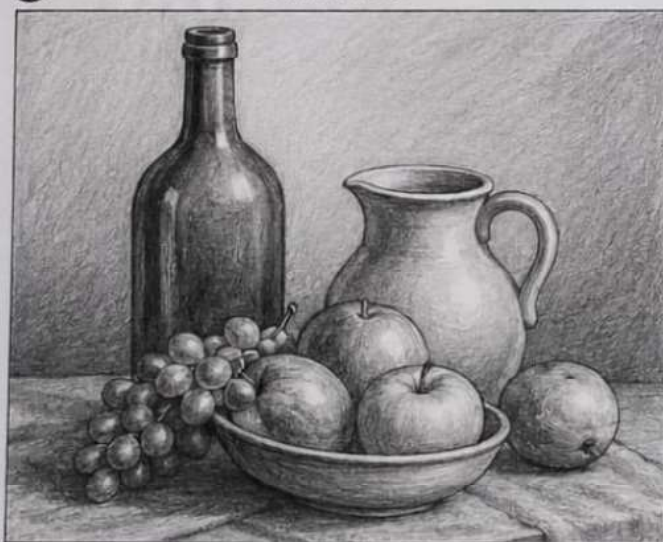
①. DRAWING (Nature / Urban Scene)



②. POSTER / COMPOSITION



③. STILL LIFE DRAWING



④. CRAFT WORK (Best out of waste)



⑤. INDIAN ART FORM (Madhubani Art)



⑥. ART APPRECIATION

Raja Ravi Varma

Raja Ravi Varma was a famous Indian painter and one of the pioneers of modern Indian art. He was born on 29th April 1848 in Kerala. He is well known for his realistic paintings of mythological and historical subjects. His works like 'Shakuntala', 'Damayanti' and 'Saraswati' are very popular. He used oil colours and brought Indian art to a new level. His contribution to Indian art is invaluable.



INSTRUCTIONS

- * Maintain neat art file
- * Use proper colours & shading
- * Show creativity and originality



HOLIDAY HOMEWORK (SUMMER VACATION)

Subject: **Vocational Education (Class 9)**

Study the first Chapter of your Vocational Education book (**Kaushal Vikas for class-9**): **Introduction to Agricultural Practices** and make a notes on particular agricultural challenge:

Investigate issues like soil degradation, water scarcity, or the impact of climate change on agricultural practices.

Prepare a report or presentation:

Organize your findings into a well-structured report, PowerPoint presentation, or video, using visuals, diagrams, and charts to support your points.