पीएम श्री केन्द्रीय विद्यालय क्रमांक 1 भारतीय प्रौद्योगिकी संस्थान खड़गपुर

कक्षा 8 – हिंदी ग्रीष्मावकाश गृहकार्य (मल्हार आधारित)

सामान्य निर्देश:	विशेष निर्देश	मूल्यांकन आधार
साफ-सुथरी लिखावट रखें अलग कॉपी में कार्य करें रचनात्मकता का उपयोग करें	चित्र, चार्ट और रंगों का उपयोग करें प्रत्येक कार्य में तिथि अवश्य लिखें कार्य को क्रमबद्ध एवं आकर्षक बनाएं	प्रस्तुति (Presentation) रचनात्मकता (Creativity) भाषा शुद्धता (Language Accuracy) समय पर पूर्णता (Completion) प्रस्तुति (Presentation)

रचनात्मक कार्य

I. पाठ्यपुस्तक की कोई कहानी पढ़ें और फिर उस कहानी का सारांश लगभग 100 शब्दों में लिखें।

II. अपनी पाठ्य पुस्तक से प्रतिदिन ऐसे दो शब्दों का चयन कर लिखें जो आपके लिए नए हो, उनका अर्थ भी लिखें। (लगभग 80 शब्द)

III. मेरी गर्मियों की छुट्टी विषय पर डायरी लगभग 200 शब्दों में लिखे।

व्याकरण एवं भाषा कार्य

I. अर्थ के आधार पर वाक्य की परिभाषा देते हुए भेदों को उदाहरण सहित परिभाषित कीजिए।

II. समास की परिभाषा बताते हुए उदाहरण सहित भेदों को स्पष्ट करें।

गतिविधि

1. अपने दादाजी को पत्र लिखकर अपने गर्मी की छुट्टियों की योजना बताएं।
2. बैंक के शाखा प्रबंधक को अपने पासबुक खोने की जानकारी देते हुए एक ई-पत्र(ईमेल) लिखें।

Art Integrated Project (Classes VI–VIII)
Summer Holiday Homework
(KVS Art Education Split-Up Syllabus | NCERT KRITI)
Including 2D & 3D Art and Craft

OBJECTIVES:

• Integrate art with academic subjects as per KVS guidelines.

• Encourage both 2D (drawing/painting) and 3D (craft/model making) skills.

• Develop creativity, observation, and aesthetic sense.

GENERAL INSTRUCTIONS:

• Use an A4 file for 2D work and separate space for 3D models.

• Each activity must include a short description (4–5 lines).

• Use eco-friendly and low-cost materials.

• Maintain neatness and originality.

CLASS VI

Theme: My Environment & Elements of Art

2D WORK:

1. Line & Shape Composition (Nature inspired)

2. Scenery Drawing (Hill station / village scene)

3. Madhubani Fish Art

3D WORK:

1. Clay Modelling – Fruits/Vegetables or Animal Forms

2. Paper Craft – Mask Making (inspired by animals or characters)

Art Integration:

• English – Describe your artwork

• EVS – Show plants/houses in your work

CLASS VII

Theme: Composition & Folk Art

2D WORK:

1. Human Figure Drawing (activity scene)

2. Poster using warm & cool colours

3. Warli Painting

3D WORK:

1. Clay Modelling – Human figure or village scene

2. Best out of Waste Craft (use recycled materials)

Art Integration:

• Science – Water Cycle (art form)

• Social Science – Monument sketch

CLASS VIII

Theme: Creative Expression & Perspective

2D WORK:

1. Perspective Drawing (road/railway track)

2. Poster Making (India 2047 / Women Empowerment)

3. Geometric/Tessellation Design

3D WORK:

1. Model Making – Future City / Smart India (using cardboard, waste)

2. Clay Sculpture – Abstract or theme-based form

Art Integration:

• Maths – Geometry in design

• Science – AI/Future Tech Poster

ESSENTIAL NOTES FOR STUDENTS:

• Balance between 2D and 3D work is important.

• Creativity matters more than perfection.

• Use proper colour combinations.

• Prefer eco-friendly and recyclable materials.

• Plan your work and complete step-by-step.

• Avoid copying—be original.

ASSESSMENT CRITERIA:

• Creativity & originality

• Skill in 2D and 3D work

• Neatness & presentation

• Concept understanding

• Integration with subjects

SUBMISSION:

• Submit 2D work in a file.

• Submit 3D models separately (properly labelled).

• Submission after summer vacation.

Curiosity leads to Discovery!

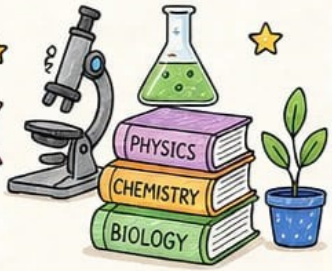
CLASS 8 – SCIENCE

SUMMER HOLIDAY HOMEWORK

MAY – JUNE 2026

Observe • Explore • Experiment • Understand

Science is Fun!



SECTION A – OBSERVATION & ANALYSIS

1. Task 1: Science Around Me

Observe your surroundings and list:

- 8 natural things
- 8 man-made things



2. Task 2: Daily Science Diary

Write daily:

- Weather conditions
- One scientific observation
- One question based on observation



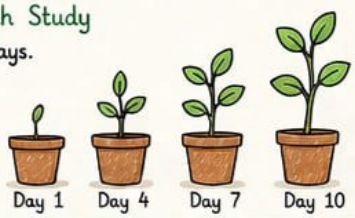
SECTION B – LIVING WORLD

3. Task 3: Plant Growth Study

Observe a plant for 10 days.

Record:

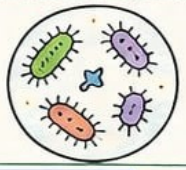
- Growth changes
- Leaf pattern
- Watering schedule



4. Task 4: Microorganisms

Write short notes on:

- Useful microorganisms
- Harmful microorganisms



SECTION C – EXPERIMENTS

5. Task 5: Home Experiments

Perform and record the experiments:

- Separation of substances
- Filtration / Evaporation



For each experiment write:

- Aim
- Materials Required
- Procedure
- Observation
- Conclusion



6. Task 6: Force & Pressure

Observe and note examples of force and pressure from your daily life.

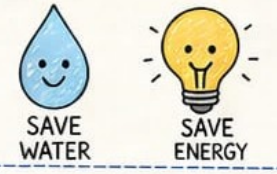


SECTION D – ENVIRONMENT

7. Task 7: Conservation

Write ways to conserve:

- Water
- Electricity



8. Task 8: Pollution Study

Identify different types of pollution.

Write:

- Causes
- Effects
- Solutions



SECTION E – SCIENCE IN DAILY LIFE

9. Task 9: Uses of Science

Write uses of science in:

- Kitchen
- Transport
- Communication



10. Task 10: Energy Sources

List:

- Renewable sources
- Non-renewable sources

Give examples and uses.



SECTION F – THINKING SKILLS

11. Task 11: Reasoning Questions

Answer the following:

- Why do metals expand on heating?
- Why is air important for life?



Think
Observe
Reason
Discover

12. Task 12: Science Quiz

Prepare 12 interesting questions based on science concepts and daily life.



SECTION G – CREATIVE ACTIVITIES

13. Task 13: Poster Making

Make a colourful poster on:

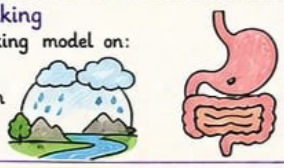
- Save Environment
- Save Energy



14. Task 14: Model Making

Make a working / non-working model on:

- Water cycle
- Human digestive system

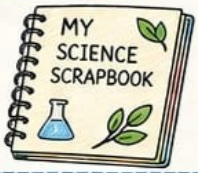


SECTION H – PROJECT WORK

15. Task 15: Science Scrapbook

Make a scrapbook including:

- Diagrams
- Experiments
- Amazing facts
- Interesting information



16. Task 16: Science Around Me

Observe and write:

- Science in kitchen
- Science in home appliances



SUBMISSION GUIDELINES

- Maintain a neat and well-organized file.
- Use diagrams, labels and colours.
- Write observations clearly.
- Submit after holidays.

Remember!

- Be curious
- Be creative
- Be consistent
- Enjoy learning Science!



WHY THIS HOMEWORK IS SPECIAL

- Helps you think scientifically
- Builds curiosity and confidence
- Connects science with real life
- Encourages learning by doing
- Makes learning meaningful and fun!

EXPLORE TODAY... DISCOVER TOMORROW... CREATE A BETTER FUTURE!

PM SHRI KENDRIYA VIDYALAYA No. 1 IIT KHARAGPUR
HOLIDAY HOMEWORK
CLASS 8

1. Make: “Author Scrapbook”

Select an author such as William Shakespeare.
Create a handmade scrapbook including:

- Short biography
- Famous works
- Quotes
- Illustrations/scenes drawn by you

2. Creative Writing:

Write a short story on the topic:
“The Day Time Stopped - But Only for Me”
Your story must include:

- A vivid setting and atmosphere
- At least two well-developed characters
- A central conflict and rising tension
- A twist that changes the meaning of the story
- A meaningful resolution
- At least one dialogue
- Use of figurative language (metaphor, irony, imagery, etc.)
- A unique and thought-provoking title

3. Reading & Critical Thinking Task
Read the book The Blue Umbrella
Then answer:
i) Analyze how the setting (village life) influences the story.
ii) If you were in Binya’s place, would you make the same choices? Justify with reasons.
iii) Rewrite one key scene from another character’s perspective.

4. Reflective Journal Writing:
Maintain a 7-day reflective journal based on the places you visit during your holidays. Each entry should be written in a clear paragraph including the date, place visited, a brief description, your feelings and observations, one learning or realization, and at least one sentence using figurative language. Focus on thoughtful reflection with clarity and coherence.

5. Creative Expression Challenge
“Design a Book Cover”
Create a cover page for an imaginary book:
Title and author name, Tagline, Illustration and Short blurb (3-4 lines).

6. Informal Letter Writing
Write a letter to your friend on the topic:
“A Skill I Am Trying to Master This Summer”
Include:

- Why you chose this skill

- Challenges faced
- Progress and learning experiences
- Future goals

7. Reading & Mind Map Activity
i) Read the chapter “Three Days to See” from your English textbook carefully.
ii) Practice all the questions & answers given at the end of the chapter.
iii) Create a mind map of the chapter including:
- Main idea
- Important characters
- Key events
- New words

(Present your mind map creatively using colours, arrows, and diagrams.)

8. Learner’s Diary
The chapters/topics completed in class: 'The Wit That Won Hearts' and 'A Concrete Example'
- What have I learnt from them?

Write the key concepts, ideas, or lessons you understood.
- What did I find interesting?

Mention any topic or part of the lesson that caught your attention and explain why.
- What did I find challenging?

Identify any difficulty you faced while learning and how you tried (or plan) to overcome it.

PM SHRI KENDRIYA VIDYALAYA No.1 IIT KHARAGPUR
VACATION HOLIDAY HOMEWORK CLASS- VIII DATE- 06/05/202

This summer, dive into the exciting world of **Home Automation** and electronics! Use the following assignments to explore how technology can make our lives easier, more efficient, and more comfortable.

Part 1: The Automation Detective (Observation) (1-10) Days

Task: Look around your home, neighborhood, or community. Identify systems that work automatically without someone needing to flip a switch.

1. **Record your findings** in a table similar to the one in the sources, noting the location, what is automated, and how you think it works.
2. **Case Study:** Think about a classroom where the lights stay on after everyone leaves. Write a short paragraph explaining how a **motion sensor** could solve this problem and save energy.
3. **Nature's Automation:** Identify one example of automation in the natural world (like the human heart or the water cycle) and explain how it acts like a machine's sensor and controller system.

Part 2: Virtual Engineer (Simulation) (11-20) Days

Task: Since electronic components can be sensitive, practice building circuits safely on a computer first.

1. **Explore Tinkercad:** Use this simulation platform to design a basic circuit.
2. **The Challenge:** Create a virtual circuit using a **9V DC battery**, a **220-ohm resistor**, an **LED**, and a **switch**.
3. **Advanced (Optional):** Try adding a **buzzer** or a **potentiometer** to see how the output changes.
4. **Diagramming:** On a sheet of paper, draw the **circuit symbols** for each component you used (Battery, Resistor, Switch, LED).

Part 3: The Innovator's Blueprint (Design) (21-30) Days

Task: Brainstorm a new automation system to help your family or school.

1. **Identify a Problem:** Is there a laborious task at home? (e.g., watering plants, checking the water tank, or home security).
2. **Map the Cycle:** Describe your system using the **Automation Cycle**:
    - **Input (Sensing):** Which sensor will you use? (e.g., PIR motion sensor, DHT11 temperature sensor, or sound sensor).
    - **Processing (Decision Making):** What logic should the **microcontroller** (the "brain") follow?
    - **Output (Action):** What hardware will act on the command? (e.g., an LCD display showing a message, a motor, or a water pump).
3. **Draw a Sketch:** Create a block diagram or a sketch of how your system would look when installed "in the field".

Part 4: Safety & Career Research (31-40) Days

Task: Learn the rules of the trade and the future of work.

1. **Safety Poster:** Create a small poster or list of precautions. Be sure to include the **Critical Warning**: beginners should only use **DC batteries**, as connecting electronic circuits directly to **230V AC Mains** is dangerous.
2. **Career Connection:** Research and write a short description of three jobs related to this field, such as an **Automation Engineer**, a **Programmer**, or a **Technical Support Specialist**.

What you will need for these tasks:

- A notebook for observations and sketches.
- Access to a computer/laptop for simulation (with adult supervision).
- Your imagination!.

पी.एम. श्री केन्द्रीय विद्यालय क्रमांक १, आई.आई.टी. खड़गपुरम्
ग्रीष्मकालीन अवकाश गृहकार्यम् (२०२६-२७)

कक्षा: अष्टमी (VIII) विषय: संस्कृतम्

1. शब्दरूपाणि (Noun & Pronoun Forms)
निम्नलिखित शब्दरूपान् स्वस्य अभ्यास-पुस्तिकायां (Exercise Copy) लिखन्तु स्मरन्तु च:

- **संज्ञा शब्दाः:** बालक (अकारान्त), लता (आकारान्त), मुनि (इकारान्त), साधु (उकारान्त)।
- **सर्वनाम शब्दाः (विशेष निर्देश):**
  - **किम् (कौन/क्या):** पुल्लिंग, स्त्रीलिंग एवं नपुंसकलिंगेषु।
  - **यद् (जो):** पुल्लिंग, स्त्रीलिंग एवं नपुंसकलिंगेषु।
  - **एतद् (यह):** पुल्लिंग, स्त्रीलिंग एवं नपुंसकलिंगेषु।
  - **अस्मद्** (मैं/हम) तथा **युष्मद्** (तुम)।

2. धातुरूपाणि (Verb Forms)
निम्नलिखित धातूनां रूपाणि **पञ्चलकारेषु** (लट्, लृट्, लङ्, लोट्, विधिलिङ्) लिखन्तु:

- **पठ्** (पढ़ना), **गम्** (जाना), **अस्** (होना), **कृ** (करना), **पा/पिब्** (पीना), **दृश्/पश्य्** (देखना)।

3. बहुविषयक परियोजना (MDP)
विषय: "भारतीय-विज्ञान परम्परा"

पञ्च प्राचीन-वैज्ञानिकानां चित्राणि रचयित्वा तेषां नामानि लिखन्तु।

- **सह-सम्बन्ध:** तेषां आविष्काराणां (यथा- शून्यम्, आयुर्वेदः, खगोलविज्ञानम्)विषये संक्षिप्तं परिचयम् अपि लिखन्तु।

4.व्याकरणं तथा CRM (Classroom Resource Material)
- **सन्धि-प्रकरणम्:** 'दीपकम्' पाठ्यपुस्तकात् दीर्घ-सन्धिः एवं गुण-सन्धेः १०-१० उदाहरणानि चित्वा विच्छेदं कुरुत।
- **कारक-चिह्नानि:** उपपद-विभक्तीनां (यथा- सह, नमः, विना) प्रयोगं कृत्वा पञ्च संस्कृत-वाक्यानि रचयन्तु।

5. शिक्षार्थी-दैनन्दिनी (Learner's Diary)
- **अस्मिन् अवकाशे मया किं विशेषं शिक्षितम्?**
- **'दीपकम्' पाठ १-४ मध्ये मम प्रियाः अंशाः के सन्ति?**
- **संस्कृत-शब्दावली-वर्धने मया कः प्रयासः कृतः?**

6. रचनात्मक-गतिविधिः
- **श्लोक-लेखनम्:** 'दीपकम्' पुस्तकात् १० श्लोकान् सुलेख-रूपेण (Calligraphy) अर्थसहितं लिखन्तु।
- **संस्कृत-नामावली:** गृहस्य २० वस्तूनां नामानि संस्कृते लिखित्वा तेषां वर्णमाला-क्रमेण (Alphabetical order) सूचीं सज्जीकुर्वन्त

शुभास्ते पन्थानः!

पीएम श्री केन्द्रीय विद्यालय क्रमांक 1 भारतीय प्रौद्योगिकी संस्थान खड़गपुर

कक्षा 8 – हिंदी ग्रीष्मावकाश गृहकार्य (मल्हार आधारित)

सामान्य निर्देश:	विशेष निर्देश	मूल्यांकन आधार
साफ-सुथरी लिखावट रखें अलग कॉपी में कार्य करें रचनात्मकता का उपयोग करें	चित्र, चार्ट और रंगों का उपयोग करें प्रत्येक कार्य में तिथि अवश्य लिखें कार्य को क्रमबद्ध एवं आकर्षक बनाएं	प्रस्तुति (Presentation) रचनात्मकता (Creativity) भाषा शुद्धता (Language Accuracy) समय पर पूर्णता (Completion) प्रस्तुति (Presentation)

रचनात्मक कार्य

I. पाठ्यपुस्तक की कोई कहानी पढ़ें और फिर उस कहानी का सारांश लगभग 100 शब्दों में लिखें।

II. अपनी पाठ्य पुस्तक से प्रतिदिन ऐसे दो शब्दों का चयन कर लिखें जो आपके लिए नए हो, उनका अर्थ भी लिखें। (लगभग 80 शब्द)

III. मेरी गर्मियों की छुट्टी विषय पर डायरी लगभग 200 शब्दों में लिखे।

व्याकरण एवं भाषा कार्य

I. अर्थ के आधार पर वाक्य की परिभाषा देते हुए भेदों को उदाहरण सहित परिभाषित कीजिए।

II. समास की परिभाषा बताते हुए उदाहरण सहित भेदों को स्पष्ट करें।

गतिविधि

1. अपने दादाजी को पत्र लिखकर अपने गर्मी की छुट्टियों की योजना बताएं।
2. बैंक के शाखा प्रबंधक को अपने पासबुक खोने की जानकारी देते हुए एक ई-पत्र(ईमेल) लिखें।

PM SHRI KENDRIYA VIDYALAYA NO.1 IIT KHARAGPUR (2026-27)

CLASS- VIII

SUBJECT- SCIENCE

SUMMER VACATION HOLIDAY HOMEWORK

ANSWER THE FOLLOWING QUESTIONS (TO BE DONE IN SCIENCE NOTEBOOK)

1. What is scientific curiosity? Give two examples from your daily life.
2. How do simple experiments at home help you understand science better?
3. Write any two rules you should follow while doing a simple experiment at home.
4. Wheat farmer adds nitrogen fertilizer; bean farmer doesn't. Explain Rhizobium's role in legumes. Diagram root nodules.
5. Why is soil from anthill fertile?
6. Draw and label plant and animal cells (include cell wall, chloroplast, cytoplasm, nucleus). Note 3 differences and functions.
7. Why do houseplants grow taller when placed near windows?
8. You notice that ice melts faster in a metal container than in a plastic one.
    a) Write the steps of the scientific method you would use to investigate this.
    b) What conclusion would you draw if your experiment shows the same pattern every time?
9. Your teacher asks you to study “the effect of sunlight on a plant.”
    a) Identify the variables in this experiment (what you will change, what you will keep the same, and what you will measure).
    b) Why is it important to keep some factors constant?
10. During summer we usually see that milk kept in an open container has become sour and changed its smell.
    a) How will you explain this change using the idea of microorganisms?
    b) Suggest two ways by which we can delay this spoilage in real life.
11. Your mother uses a packet of yeast to make bread, while your grandmother uses curd to make idli.
    a) Compare the role of yeast and the microbes in curd.
    b) How are their actions similar and different in making food puffy and soft?
12. A farmer spreads cow dung in the field, while a housewife throws fruit peel near the dustbin where it becomes dark and soft after some days.
    a) How are microorganisms helping in both cases?
    b) Why is this process important for the environment?
13. Your friend says, “All microbes are harmful and cause diseases.”
    a) Give three examples to show that many microbes are useful.
    b) How will you explain that both useful and harmful microbes are part of the same invisible living world?
14. A student wants to test “Which fertiliser makes plants grow faster?” but uses different pots, different light, and different amounts of water for each plant.
    a) Why is this an unfair test?

b) Suggest how this experiment should be redesigned to give a fair comparison.

15. A shopkeeper says, “This packed food is safe because it is sealed.”
    a) Why can this statement still be wrong sometimes?
    b) What precautions should you take before trusting packaged food?

16. <u>SUBJECT ENRICHMENT ACTIVITY (TO BE DONE IN FILE)</u>

Activity 1: Spoilage Observation Jar

- Take 3 small bowls:
- One with milk
- One with curd
- One with cooked rice
- Keep them in a warm place and note changes daily for 2–3 days.
- Write a report: what happened, why (role of microbes), and how to prevent spoilage. Also paste pictures of the activity

Activity 2- Poster on “Useful vs Harmful Microbes”

- Draw a poster showing:
  - 3 useful microbes (curd, bread, compost).
  - 3 harmful microbes (disease-causing ones you know).
- Under each, write 1–2 lines explaining their role.

Activity 3: Simple Scientific Investigation

- Choose **one problem** from daily life (e.g., “Why does my wet towel dry faster in the sun?” or “Why does ice melt?”).
- Do the following steps and write them in your notebook:
  1. **Question**
  2. **Observation**
  3. **Hypothesis**
  4. **Simple experiment** you can do at home
  5. **Result and conclusion**
- Take **1–2 photos** of your experiment and paste them in your notebook.

Activity 4-Science Scrapbook of My Summer

- Students collect clippings, photos, or drawings of anything related to science from their holidays:
  - Rain, plants, electricity, vehicles, food, etc.
- Paste in a scrapbook and write 1–2 lines under each about the science concept involved.