

PM SHRI KENDRIYA VIDYALAYA PERAMBALUR
AUTUMN BREAK HOMEWORK
CLASS VIII

ENGLISH	1. Reading Challenge – Level 2 Read each page and also do activities in the Reading Challenge 2. Creative Writing – Story Writing Write an original story on one A4 sheet. Instructions: Give your story a suitable title. Highlight the different parts of speech using the following colour code. Nouns – Blue Pronouns – Red Verbs – Green Adjectives – Yellow Adverbs – Orange Prepositions – Pink Conjunctions – Purple Interjections – Brown
HINDI	1. पाठ ' नए मेहमान ' को पूरा स्वयं पढ़िए। समझिए। इसका सारांश 100 शब्दों में लिखिए। 2. दीपावली आप कैसे मनाते हैं? 80 शब्दों में लिखिए।
SANSKRIT	संस्कृतगृहकार्यम् कक्षा – अष्टमी 1\ शब्दरूपाणि लिखत – राम, लता, फल तथा किमपि एकस्य नाम्नः शब्दरूपाणि लिखत। 2\ धातुरूपाणि लिखत – पठ्, गम्, लिख् धातूनां लट्लकारे रूपाणि लिखत। 3\ विजयादशमीपर्वणि संस्कृतभाषायां न्यूनातिन्यूनं पञ्च वाक्यानि लिखत।
MATHS	GENERAL INSTRUCTIONS 1. Complete all five activities neatly in a separate Mathematics activity notebook. 2. Write the title, materials, procedure, and calculations (where applicable) for each activity. 3. Use colours, drawings, and real-life

examples wherever suitable.

4. Do the work independently. Each activity should take only 15–20 minutes.
5. Submit the completed work on the first day after the autumn break.

Activity 1: Square Number Patterns

Materials: Graph paper / squared notebook, pencil, colours.

6. Draw squares of side 1, 2, 3, 4 and 5 units on graph paper.
7. Count the number of unit squares in each and write the square numbers: 1^2 , 2^2 , 3^2 , 4^2 , 5^2 .
8. Observe the pattern in consecutive square numbers and write the difference between them.

Activity 2: Finding Square Roots by Prime Factorisation

Materials: Pencil, notebook.

9. Choose any three perfect square numbers between 100 and 400 (e.g., 144, 196, 256).
10. Find their square roots using the prime factorisation method. Show all steps.
11. Verify your answers by multiplying the root by itself.

Activity 3: Rational Numbers on the Number Line

Materials: Ruler, pencil, colours.

12. Draw a number line from -2 to $+2$.
13. Mark and label the rational numbers: $-\frac{3}{2}$, $-\frac{1}{2}$, $\frac{1}{4}$, $\frac{3}{4}$, $\frac{5}{4}$.
14. Identify the greatest and the smallest among the marked numbers.

Activity 4: Real-life Rational Numbers

Materials: Pencil and colours.

15. Observe three real-life situations involving rational numbers (e.g., temperature, money, measurements).

	16. Draw or write each situation and express the quantity as a rational number in p/q form. 17. Write one sentence explaining each example. Activity 5: Square Root Estimation Game <i>Materials: Paper, pencil.</i> 18. Take any three non-perfect square numbers between 10 and 50 (e.g., 18, 27, 40). 19. Estimate their square roots by finding the two consecutive integers between which the root lies. 20. Write the estimation in the form: _____ $< \sqrt{n} < \text{_____}$ and check with a calculator if available.
SCIENCE	1. Diagram + Conceptual Understanding (Particulate Nature of Matter) Draw neat labelled diagrams showing the arrangement of particles in solid, liquid and gas states. Explain the difference in interparticle space, force of attraction and movement of particles in the three states. Why can gases be compressed easily while solids cannot? Give one everyday example of diffusion. 2. Investigation + Classification (Nature of Matter: Elements, Compounds and Mixtures) Collect any five substances available at home (e.g., salt, sugar, iron nail, copper wire, air, water, chalk). Classify them as element, compound or mixture. Give one reason for each classification. Draw a simple flowchart showing how pure substances and mixtures are related. Explain the difference between a compound and a mixture with one example of each
SOCIAL	World Geography Glimpses Students are instructed to prepare a scrapbook featuring different places around the world. Paste pictures of selected places and write a few details about each place, including its location, physical features, climate, and geographical importance.

Art Education	Arrange Some fruits and kitchen pots together and compose a still life on a paper and colour it using pencil colour.
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MULTIDISCIPLINARY PROJECT (MDP)

GENERAL INSTRUCTIONS:

- Complete all six subject-wise activities.
- Use A4 sheets and arrange them in a single project file.
- Write neatly and present your work creatively.
- Use pictures, drawings, maps, tables and diagrams wherever required.
- Write in your own words. Avoid copying entire paragraphs from the internet.
- Mention the sources of information used.
- Submit the completed project on the first working day after the autumn break.

ENGLISH ACTIVITY: A JOURNEY THROUGH INDIA'S NATURAL WONDERS

Choose any ONE spectacular natural wonder of India.

Examples: • Living Root Bridges of Meghalaya • Lonar Crater Lake, Maharashtra • Sundarbans, West Bengal • Loktak Lake, Manipur • Magnetic Hill, Ladakh

TASKS:

Write a descriptive paragraph of 120–150 words about your chosen natural wonder.

Include its location, special features and importance.

Draw or paste a picture of your chosen wonder.

HINDI गतिविधि: भारत के प्राकृतिक आश्चर्य

भारत के किसी एक प्राकृतिक आश्चर्य के बारे में जानकारी प्राप्त कीजिए।

कार्य:

अपने चुने हुए प्राकृतिक आश्चर्य का नाम और स्थान लिखिए।

उसके बारे में हिंदी में 8–10 वाक्य लिखिए।

SANSKRIT ACTIVITY: प्रकृति: (NATURE)

TASKS:

Write the following five Sanskrit words with their English meanings.

प्रकृति: – Nature पर्वत: – Mountain नदी – River वृक्ष: – Tree जलम् – Water

Write five simple Sanskrit sentences about nature.

Examples:

(i) प्रकृति: सुन्दरा अस्ति। Meaning: Nature is beautiful.

(ii) वृक्षा: अस्माकं मित्राणि सन्ति। Meaning: Trees are our friends.

(iii) नद्यः जलं ददति। Meaning: Rivers give water.

(iv) पर्वताः उन्नताः सन्ति। Meaning: Mountains are high.

(v) वयं प्रकृतिं रक्षामः। Meaning: We protect nature.

MATHEMATICS ACTIVITY: THE MATHEMATICS OF NATURAL WONDERS

Choose any THREE natural wonders of India and collect information about their measurable features, such as height, length or area.

TASKS:

- Prepare a table containing the names of three natural wonders, their locations and one measurable feature of each.
- Calculate the difference between the greatest and smallest values in your data.
- Write three mathematical observations based on your graph.
- Mention the units of measurement and the sources of your data.

SCIENCE ACTIVITY: DISCOVER THE SCIENCE OF NATURE

Choose ONE natural wonder and investigate the scientific principles behind its formation or existence.

Suggested topics:

• Living Root Bridges – Plant growth and root development • Lonar Crater Lake – Meteorite impacts and crater formation • Sundarbans – Mangrove adaptations and ecosystems • Loktak Lake – Floating vegetation and aquatic ecosystems • Himalayan Glaciers – Ice formation, melting and climate

TASKS:

- Name your chosen natural wonder.
- Explain how it was formed or how it functions.
- Identify two scientific concepts associated with it.
- Explain how environmental changes could affect it.
- Suggest three ways to conserve it.
- Draw a labelled scientific diagram explaining its formation or functioning.

SOCIAL SCIENCE ACTIVITY: MAPPING INDIA'S SPECTACULAR WONDERS

TASKS:

Locate and mark any FIVE natural wonders on an outline map of India.

Write the name of the state where each wonder is found.

Identify the geographical region associated with each wonder, wherever applicable.

Explain in 5–6 sentences how natural wonders contribute to tourism, local livelihoods or environmental conservation.

Mention two threats faced by natural wonders and suggest two conservation measures.