

DAV PUBLIC SCHOOL, GOLE MARKET

SUMMER HOLIDAY HOMEWORK

Class: VIII

Session: 2026-2027

THEME:



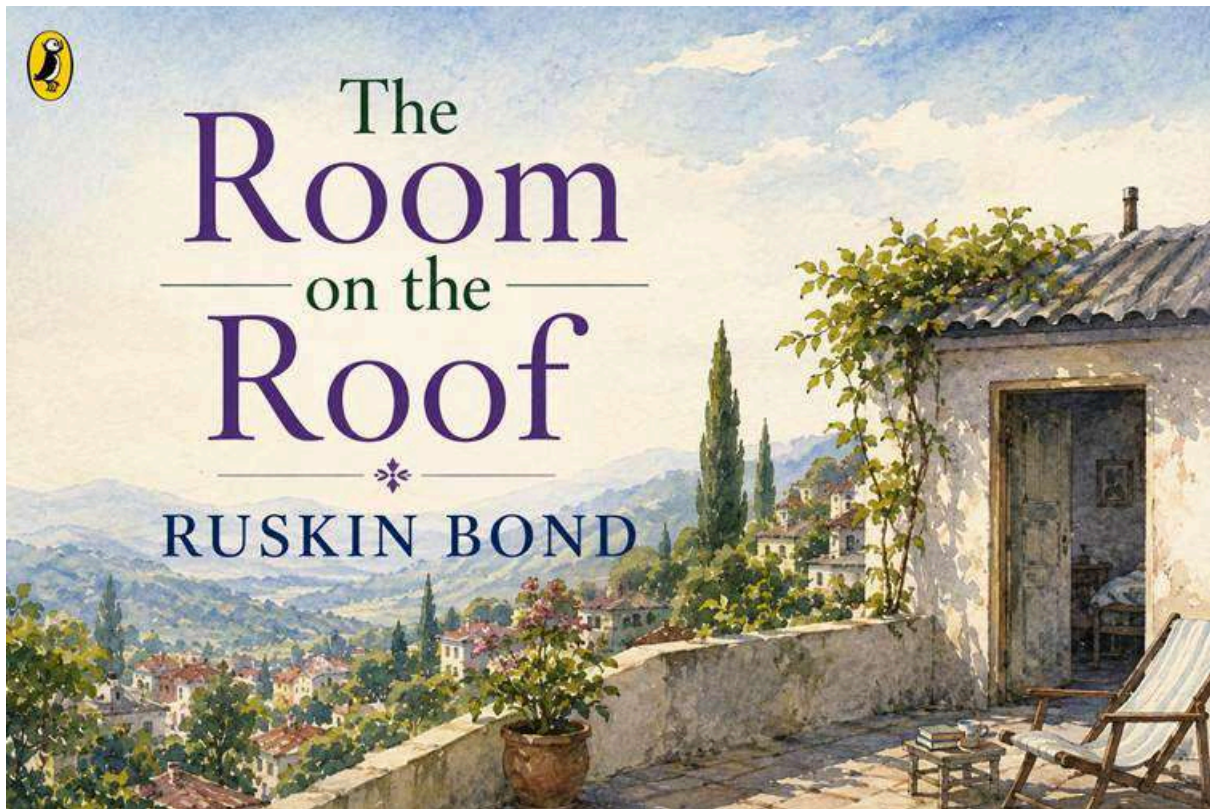
Nature & Nurture: The New Necessity.

This summer, we embark on a fascinating journey to explore the delicate dance between Nature—the incredible environment that sustains us—and Nurture—our responsibility to care for, protect, and restore it. Through these activities, you will discover how the natural world shapes our lives and how our mindful choices can heal and protect our planet.

Let's look beyond our screens, connect with the earth, and learn to be the thoughtful guardians our environment needs!

ENGLISH

TASK 1: GOOD READER BONUS



Book: The Room on the Roof (Ruskin Bond)

Activity: "Step into the Character's Mind"

Task: Write a reflective diary entry as Rusty, capturing the moment he leaves his old life behind to embrace independence.

Key Points to Cover:

- His emotional journey from restriction to freedom
- The meaning of friendship and having a place of his own
- His fears, dreams, and hopes for the future
- How these experiences are shaping his identity and character

Word Limit: 250-300 words

Good Reader Bonus: These tasks will contribute towards PT-1 evaluation. Thorough reading, creativity, and sincere presentation are encouraged.

TASK 2: Tenses Through Monologues



Topic: "Changing Times Through Three Generations"

Task: Write a creative monologue comparing life across three eras. Use the assignment to

showcase your mastery of tenses and creative writing.

Monologue Structure & Tenses:

1. **The Past (Father's Era):** Must use Past Tense. Focus on a simpler childhood, traditional outdoor games, and limited technology.

2. **The Present (Your Era):** Must use Present Tense. Focus on digital connectivity, fast-paced learning, and modern friendships.


3. **The Future (Your Child's Era):** Must use Future Tense. Imagine a highly advanced world, AI integration, and new environmental challenges.

Key Elements to Compare:

- Technology & Communication
- Education & Daily Lifestyle
- Core Values & Family Relationships

Presentation & Language:

- Ensure absolute grammatical accuracy with clear transitions between tenses.
- Write neatly and keep your script entirely original.
- Optional: Add a creative timeline or symbolic sketches representing the three eras.

 Tip: Bring out the emotional contrast between the eras. Let your words show how time moves.

TASK 3: POEM COMPOSITION



Topic- "If Gurukuls Existed in 2026..."

In an age of technology, fast-paced lifestyles, and increasing disconnection from nature and inner peace, imagine how education would look if the ancient Gurukul system still existed in the modern world.

Compose an original poem on the theme:

"If Gurukuls Existed in 2026..."

HINDI



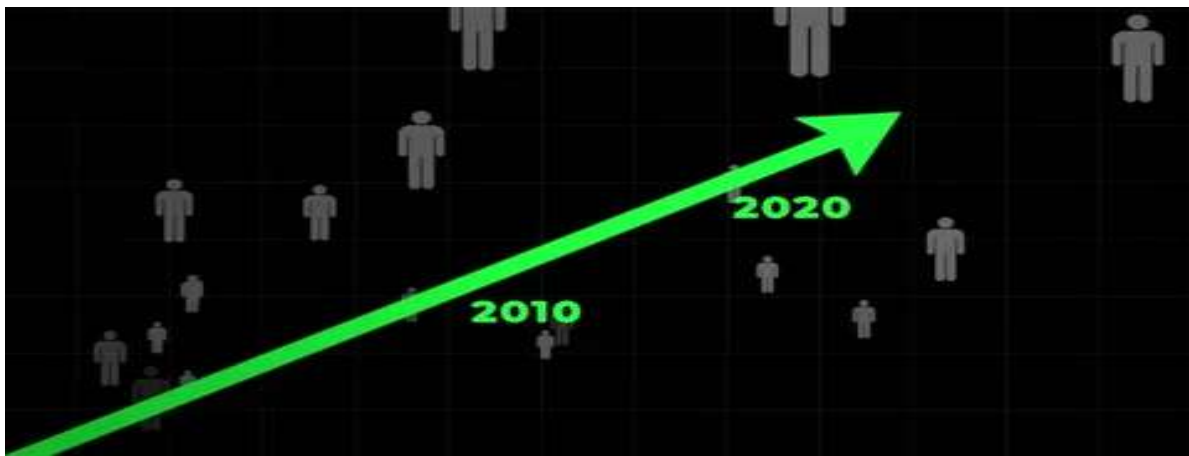
1. "अपने परिवार के सदस्यों का ध्यानपूर्वक अवलोकन करें। एक तालिका बनाकर लिखिए कि आपकी कौन सी 3 आदतें माता-पिता से विरासत में मिली हैं (प्रकृति) और कौन सी 3 आदतें आपने अपने दोस्तों या स्कूल से सीखी हैं (पोषण), जो पर्यावरण के अनुकूल हैं।"

2. एक **A4** चार्ट पेपर पर 'प्रकृति और पर्यावरण संरक्षण' पर एक सुंदर पोस्टर बनाएं और उस पर कोई प्रेरणादायक नारा हिंदी में लिखें।

3. अपने नाम के प्रथम अक्षर से तीन नये सार्थक शब्दों का निर्माण करें एवं प्रत्येक शब्द के दो दो पर्यायवाची शब्द लिखिए ।

MATHS

Topic: Direct and Inverse Variation



A. Project : **"Growing Towns, Shrinking Drops"**

A small eco-township is tracking its population growth over a decade and analyzing how this growth impacts their freshwater reservoir.

Solve two mathematical scenarios based on the data table below:

Year	Population (x)	Total Daily Water Needed (y)	Days the Reservoir Water Will Last (z)
2016	2,000	30,000 Litres	60 Days
2026	4,000	?	?

Task 1: Direct Variation (Population vs. Total Water Demand)

The total daily water required by the town varies directly with the population.

- As population (x) increases, total water demand (y) increases.
- Problem: If 2,000 people require 30,000 liters of water daily, calculate how many liters of water 4,000 people will need in 2026. Show the step-by-step working.

Task 2: Inverse Variation (Population vs. Resource Sustainability)

The reservoir holds a fixed total amount of water. The number of days the reservoir water will last (z) varies inversely with the population (x)

- As population (x) increases, the number of days the water lasts (z) decreases.
- Problem: If the reservoir water lasts for 60 days for a population of 2,000 people, calculate how many days it will last for the 2026 population of 4,000 people.

Project Submission Requirements

1. Introduction: A brief 3-sentence note on why conserving water is essential as human populations grow.
2. Conclusion: State the mathematical constants (k) found in both tasks and write a final reflection on how population growth impacts natural resources.

B. A mathematician is someone who uses an extensive knowledge of mathematics in their work,

typically to solve mathematical problems. Research and make a project on the life history of any one Indian Mathematician and his/her contribution in the field of mathematics. It should include following points:

1. Name
2. Time and Place
3. Work and achievements

Note: Use A4 size sheets to write your answer with pictures.

C. WORKSHEET

Chapter: Cubes and Cube roots.

1. Show that 46656 is a perfect cube.
2. What is the one's digit in the cube of 38 ?
3. Find the sides of a cubical box whose volume is 64 cm^3 .
4. How many perfect cubes are there between 1 and 1000
5. Is the cube of 4913 an odd number? Why?
6. The volume of a cube is 9261 cm^3 . Find its

edge.

7. Find the cube root of 0.064.
8. Find the cube of 0.2.
9. Is 9000 a perfect cube?
10. By which smallest number should 42592 be divided so that the quotient is a perfect cube?
11. By which smallest number should 704 be divided to obtain a perfect cube?
12. Find the cube root of $27 \times (-2744)$.

Chapter- Direct and Inverse Variation

Q1. If x and y vary inversely and $x = 25$ and $y = 3$. Find y , when $x = 15$.

Q2. If x and y vary directly with each other and $x = 24$, what is y when the constant of variation is 3?

Q3. The cost of 3 kg sugar is ₹ 105. What will be the cost of 15 kg of sugar?

Q4. If the weight of five sheets of paper is 20g, how many sheets of the same paper would weigh 2.5 kg?

Q5. A dealer finds that 48 refined oil cans can be packed in eight cartons of the same size. How many such cartons will he require to pack 216 cans?

Q6. If 15 men can repair a road in 24 days, then how long will it take nine men to repair the same road?

Q7. A contractor with a workforce of 420 men can complete a work of construction of a building in nine months. Due to a request by the owners he was asked to complete the job in seven months. How many extra men must he employ to complete the job?

Q8. A garrison of 120 men has provision for 30 days. At the end of 5 days, five more men joined them. How many days can they sustain on the remaining provision?

Q9. A train 350 metres long crosses an electric pole in 28 seconds. Find the speed of the train in km/hr.

Q10. A train 280 metres long is running at a speed of 42 km/hr. How much time will it take to pass a man standing on a platform?

SST

1) Make a project on any solar powered object .



2) Create a flip book on any one type of forest. Include information such as its climate, vegetation, animals, location, and importance. Decorate your flip book with neat drawings, pictures, and creative captions.

3) Make a poster on any one programme launched by the government for the upliftment of the weaker sections of society.



SCIENCE

Q1 Indian Scientists- Read life history and

achievements of the following scientists and make a brief project on their achievements with their pictures.

1. Meghnad Saha
2. C.V Raman
3. Satyendra Nath Bose
4. Vikram Sarabhai

Q2 Prepare a project on UV Rays Investigation.

Research and write:

- What are UV rays?
- Types of UV rays
- Harmful effects of excessive UV exposure
- Ways to protect ourselves

Visit your home/surroundings and list:

- Products labeled "CFC-Free"
- Eco-friendly appliances
- Practices that reduce pollution

Write your observations.

Q3 Wildlife Conservation Project

Choose any 5 endangered animals and prepare a report.

Include:

- Habitat
- Reasons for endangerment
- Conservation efforts
- Interesting facts

SANSKRIT

1. पठित पाठ में से कोई एक गद्यांश का चुनाव करे व उससे सम्बन्धित प्रश्नो का निर्माण करे तथा उनके उत्तर लिखें ।

2. निम्नलिखित शब्दों के शब्दरूप का निर्माण करें व याद करें ।

तत्, किम् (तीनों लिङ्गो में)

अस्मद्, युष्मद्

3. कार्यकलाप:- “प्रकृति और पालनपोषण” किस प्रकार हमारे व्यक्तित्व को आकार देते है? अपने विचार संस्कृत में लिखें ।

नोट: - (सभी विद्यार्थी प्रश्न-1 और प्रश्न-2 का कार्य अपनी उत्तर पुस्तिका में करेंगे।)

(प्रश्न -3 का कार्य ए-4 शीट पर करेंगे ।

