



**SHIKSHA NIKETAN SENIOR SECONDARY SCHOOL
JEEVAN NAGAR JAMMU
SESSION:- 2025-26**

As Per Govt.

Order no:- 186 DSEJ OF2025

Dated :- 31-5-2025

**HOLIDAYS
HOMEWORK
OF
HIGH WING**

As Per Govt.

Order no :- 186 DSEJ OF2025

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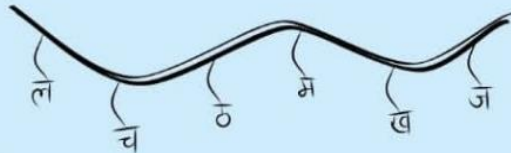
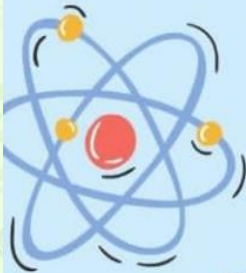
SHIKSHA NIKETAN

SR. SEC. SCHOOL JEEVAN NAGAR JAMMU

SUMMER VACATIONS HOME WORK



CLASS 9TH



EMAIL: SHIKSHA.NIKETAN07@GMAIL.COM
WEBSITE: WWW.SHIKSHANIKETANJK.IN

**SHIKSHA NIKETAN SENIOR SECONDARY SCHOOL,
JEEVAN NAGAR, JAMMU
Established in 1969
SUMMER VACATIONS 2025-26**

GENERAL INSTRUCTIONS

For Students:

- 1. Complete your holiday homework independently as much as possible.**
- 2. Use a separate notebook for each subject.**
- 3. Ensure your handwriting is neat and presentable.**
- 4. Work under the supervision and guidance of your parents or guardians.**
- 5. Mention the date and day with each day's work.**
- 6. Practice writing regularly to improve your writing skills.**
- 7. Take good care of your health and hygiene.**
- 8. Avoid playing in the hot sun or overly warm places.**
- 9. Make it a habit to pray daily and stay spiritually connected.**

For Parents:

- 1. Ensure that holiday homework is completed under your supervision.**
- 2. Kindly send the completed work in a paper bag on the first day after the summer vacation.**
- 3. Encourage your child to spend time outdoors in the evenings.**
- 4. Involve your child in a creative activity of your choice and submit the outcome to school after the break.**
- 5. Help your child create and follow a structured timetable during the vacation.**
- 6. Instill a sense of responsibility in your child by assigning simple household tasks.**

Contact Details:

Mobile: +91 9906074690 (J.N.) | +91 8803501348 (G.N.)

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WEBSITE: WWW.SHIKSHANIKETANJK.IN**

**SHIKSHA NIKETAN SENIOR SECONDARY SCHOOL
JEEVAN NAGAR, JAMMU
GENERAL INSTRUCTIONS**

- 1. Holiday homework must be completed neatly and in a well-organized manner. Ensure that the questions are answered in the sequence provided.**
- 2. Assessment will be based on presentation, neatness, completeness, and timely submission of all tasks.**
- 3. For project work, strictly follow the instructions provided wherever applicable.**
- 4. Avoid the use of plastic and thermocol in any part of your project or homework.**
- 5. Revise all subjects regularly during the holidays to prepare for upcoming assessments.**
- 6. Parents are requested not to complete the work for their children. Instead, provide guidance and encourage your child to complete the tasks independently. Only original work by the student will be appreciated.**
- 7. Handmade projects and homework will be evaluated based on neatness and creativity. Work purchased from shops will not be considered.**
School will reopen on _____
- 8. Holiday homework submission date: _____**
 - **Timing: Roll Nos. 1-20: _____**
 - **Roll Nos. 21 onwards: _____**
 - **Entry and exit through Gate No. _____**
- 9. Late submissions or latecomers will not be accepted and will not be entertained by the school administration.**

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Dear students,
You are required to complete the project work
assigned to you as per your roll number
mentioned in the table provided.

Please note that for Science, the project work is
mandatory for all students. Make sure you
follow the instructions carefully and complete
your work with sincerity and creativity.

Wishing you all the best!

SUBJECTS	ENGLISH	HINDI	MATHS	SOCIAL SCIENCE	
ROLL NO.	1, 5, 9, 13, 17, 21, 25, 29, 33, 37	2, 6, 10, 14, 18, 22, 26, 30, 34, 38	3, 7, 11, 15, 19, 23, 27, 31, 35, 39	4, 8, 12, 16, 20, 24, 28, 32, 36, 40	

Enjoy Vacation

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Holiday Homework Questions

Class :9th

Subject:- English

1. Write a character sketch of the protagonist in the novel "Gulliver Travels" by Jonathan Swift.
2. Write a speech on the topic "The Power of Youth in Shaping the Future."
3. Read the Newspaper daily and write only one news article under the given headings like National, International, Sports, Business and express your views on it.
4. Debate: Write arguments for or against the topic "Should Schools Have Uniforms?"
5. Book Review: Write a review of a book you read recently, highlighting its strengths and weaknesses.
6. Grammar: Explain the difference between active and passive voice, with examples.
7. Creative Writing: Write a short story based on a given prompt: "A mysterious box is discovered in the attic."
8. Email Etiquette: Write a formal email to a company inquiring about internship opportunities.

9. Vocabulary Building: Write a paragraph using at least five new vocabulary words you've learned.

10. Reflective Writing: Reflect on what you learned from a recent project or assignment and how you can apply it in real-life situations.

11. Immerse yourselves in the enriching world of books. Reading is a powerful habit that Cultivates imagination, enhances vocabulary, sharpens critical thinking, and nurtures empathy—qualities at the heart of the National Education Policy (NEP) 2020. Explore The captivating works of celebrated authors like Ruskin Bond, Sudha Murty, Roald Dahl, R.K. Narayan, and J.K. Rowling, whose stories are both engaging and thought-Provoking. Let books be your companions this summer.

Write a thoughtful and well-expressed diary entry on any one book you read. Reflect On the central theme or message of the book and describe how it made you feel. Share

Your personal opinions, insights, and whether or not you enjoyed the book.

Project Title

“Empowering Change: A Global Citizenship Initiative”

Project Objective

To create awareness and promote global citizenship among students, encouraging them to become active contributors to creating a better future.

Project Ideas

Poster Making: Design posters highlighting global issues (e.g., climate change, equality, education) and potential solutions.

Or

Social Media Campaign*: Create a social media campaign to raise awareness about global issues and promote empathy. Write about it in 150 words and make collage of your campaign on chart showing your campaign.

विषय- हिन्दी

ग्रीष्मकालीन अवकाश कार्य

प्रश्न 1 वस्तुनिष्ठ प्रश्न

पाठ - 10 यमराज की दिशा

पाठ - 15 बड़े घर की बेटी

(प्रत्येक पाठ में से दस-दस लघु प्रश्नोत्तर लिखिए।)

प्रश्न 2 व्याकरण

क) मुहावरे (20)

ख) पर्यायवाची शब्द (20)

ग) वाक्यांश (20)

घ) अनेकार्थी शब्द (20)

ङ) विलोम शब्द (20)

नोट:- लिखें तथा याद करें ।

प्रश्न 3 निबंध - 1) विज्ञान के चमत्कार

2) प्रदूषण: कारण एवं निवारण

प्रश्न 4 पत्र लेखन:- पारिवारिक पत्र

(कोई दो लिखें।)

प्रश्न 5 परियोजना कार्य :- स्वस्थ जीवन शैली
पर एक कविता लिखें तथा अपनी रचनात्मक कला
का प्रयोग करते हुए, एक पोस्टर बनाएँ जो
स्वस्थ जीवन शैली के महत्व को दर्शाता हो ।

SUBJECT: MATHEMATICS

Theme: From Zero to Hero – Power of Numbers

Case Study 1: Ravi is fascinated by how numbers work. One day, he came across a YouTube video explaining rational and irrational numbers. Curious, he decided to classify some numbers he encountered during a math quiz competition at school.

Q1. Ravi found the number $\sqrt{2}$. What type of number is it?

- a) Rational**
- b) Irrational**
- c) Whole**
- d) Natural**

Q2. Which of the following is a rational number?

a) π

b) 1.5

c) $\sqrt{3}$

d) e

Q3. Ravi claims that 0 is neither positive nor negative. Is he correct?

a) Yes

b) No

c) Only for positive numbers

d) Only for integers

Q4. Identify the number that is not a real number.

a) 5

b) 0

c) $\sqrt{-1}$

d) 1.01

Case Study 2: Anita is preparing for a science fair. She decides to create a model to explain the motion of objects using polynomial expressions. Her model shows how distance changes with time using equations like $s(t) = 5t^2 + 3t + 2$.

Q1. What is the degree of the polynomial $s(t) = 5t^2 + 3t + 2$?

a) 1

b) 2

c) 3

d) 0

Q2. Identify the coefficient of t in the polynomial.

a) 2

b) 3

c) 5

d) 0

Q3. Which term is the constant term?

a) $5t^2$

b) $3t$

c) 2 d) t^2

Q4. If $s(t) = 5t^2 + 3t + 2$, what will be the value of $s(1)$?

a) 10

b) 8

c) 5

d) 6

Long Answer type questions

1. Represent $\sqrt{5}$ on the number line using geometrical method.

2. The cost of 1 pencil is ₹5 and 1 pen is ₹10, write a linear equation in two variables to represent the total cost of pencils and pens bought for ₹100. Find at least three solutions of the

equation.

3. Define polynomial and its degree. Classify the following polynomials and write their degrees:

a) $3x^2 - 4x + 7$

b) 5

c) $x^3 - x + 9$

4. State and prove the vertically opposite angles theorem.

5. Who was Euclid? State Euclid's five postulates and explain each with examples

Short Answer type questions

1. Define the following and its type Rational numbers, Irrational numbers with example

2. Give four solutions of the equation $x + 2y = 6$

3. What is the value of each angle if two angles are complementary and one angle is 40° ?

4. Write all the definitions of Euclid's from the book 1.

5. State and prove factor theorem.

Very Short Answer type questions

1. Rationalize the denominator $\sqrt{2/3} + \sqrt{3}$

2. Write in standard form $x = 34$

3.What are parallel lines and transversal lines

4. State all the axioms of Euclid

5. Factorize $X^2 - y^2 / 100$

Project Work :

Make a project on Algebraic Identities of polynomials with the help of chart showing ur creativity , imagination n originality

Subject: SCIENCE

Q1. Plastic waste is harming marine life by entering food chains.

As a student who understands how cell membranes absorb substances:

- a) Explain how microplastics might damage animal cells**
- b) Suggest two ways your school can reduce plastic use, linking each to cell health**
- c) Why should protecting cells of other organisms matter to humans?**

Q2. During heatwaves, poor communities suffer more due to lack of cooling options. Using the concept of evaporation:

- a) Why does a clay pot cool water naturally?**
- b) Design a replica in the form of diagram, an affordable cooling**

solution for street vendors using this principle

c) How can sharing such knowledge promote equity in society?

Very Short Answer Questions

- 1. What is the SI unit of acceleration?**
- 2. Name the process by which gas changes directly into solid.**
- 3. Which cell organelle controls all cellular activities?**
- 4. Define 'force' in one sentence.**
- 5. What happens to the kinetic energy of particles when a liquid cools?**

Short Answer Questions

- 6. A bus accelerates from 10 m/s to 30 m/s in 5 seconds. Calculate its acceleration.**
- 7. Why do we sprinkle water on the roof during hot summers? Explain with scientific reasoning.**
- 8. Differentiate between diffusion and osmosis (any two points).**
- 9. State Newton's Third Law of Motion and give one practical example.**
- 10. Draw a labelled diagram of a plant cell wall and mention its function.**

Long Answer Questions

11. Give points of difference between

a) distance and displacement

b) speed and velocity

12. Describe an activity to demonstrate that particles of matter are continuously moving.


13. Explain the structure and functions of the plasma membrane with a diagram.

14. Prove experimentally that force applied is directly proportional to acceleration produced(include apparatus, steps, and conclusion).

15. Compare the characteristics of solids, liquids, and gases in tabular form (any five points).

Practice Question:

Using the given list of cations and anions, form different ionic compounds by pairing them appropriately. Write both the chemical formula and the correct name for each compound formed.



List of Ions:

Cations (Positive Ions):

- 1.Sodium (Na^+)**
- 2.Potassium (K^+)**
- 3.Calcium (Ca^{2+})**
- 4.Magnesium (Mg^{2+})**
- 5.Aluminum (Al^{3+})**
- 6.Iron(II) or Ferrous (Fe^{2+})**
- 7.Iron(III) or Ferric (Fe^{3+})**
- 8.Copper(I) or Cuprous (Cu^+)**
- 9.Copper(II) or Cupric (Cu^{2+})**
- 10.Zinc (Zn^{2+})**
- 11.Ammonium (NH_4^+)**
- 12. Silver (Ag^+)**
- 13.Lead(II) (Pb^{2+})**
- 14.Barium (Ba^{2+})**
- 15.Lithium (Li^+)**



Anions (Negative Ions):

1.Chloride (Cl^-)

2.Oxide (O^{2-})

3.Sulfide (S^{2-})

4.Nitrate (NO_3^-)

5.Carbonate (CO_3^{2-})

6.Sulfate (SO_4^{2-})

7.Hydroxide (OH^-)

8.Phosphate (PO_4^{3-})

9.Fluoride (F^-)

10.Bromide (Br^-)

11.Iodide (I^-)

12.Acetate ($\text{C}_2\text{H}_3\text{O}_2^-$)

13.Permanganate (MnO_4^-)

14.Dichromate ($\text{Cr}_2\text{O}_7^{2-}$)

15.Nitrite (NO_2^-)



Subject: SOCIAL SCIENCE

THEME: EK BHARAT SHRESHTHA BHARAT.

THEME BASED QUESTIONS.

Q1. WHAT IS THE MAIN GOAL OF THE 'EK BHARAT Project-Based

Question for "Ek Bharat Shreshtha Bharat" Chart Activity:

Design a creative chart showcasing the cultural diversity and unity of India under the 'Ek Bharat Shreshtha Bharat' initiative. Focus on a pair

of Indian states (e.g., Kerala-Himachal Pradesh or Tamil Nadu-Jammu & Kashmir) and highlight their unique traditions, languages, festivals, and cuisines. Include visuals, slogans, and a personal pledge promoting national integration. Explain how this initiative strengthens India's unity. BHARAT 'INITIATIVE?

Q2. WHAT ROLE DO THE STATE AND UNION TERRITORIES PLAY IN EK BHARAT SHRESHTHA BHARAT PROGRAMME?

LONG TYPE QUESTIONS:

Q1. THE CENTRAL LOCATION OF INDIA AT THE HEAD OF THE INDIAN OCEAN IS CONSIDERED OF GREAT SIGNIFICANCE WHY?

Q2. WHAT IS THE BROADER MEANING OF DEMOCRACY?

Q3.WHAT ARE THE KEY FEATURES OF DEMOCRACY?

SHORT ANSWER TYPE QUESTIONS:

Q1. WOULD YOU AGREE WITH THE VIEW THAT THE MESSAGE OF UNIVERSAL RIGHT WAS BESET WITH CONTRADICTIONS? EXPLAIN.

Q2. WHICH ARE THE MAJOR PHYSIOGRAPHIC DIVISIONS OF INDIA? CONTRAST THE RELIEF OF THE HIMALAYAN REGION WITH THAT OF THE PENINSULAR PLATEAU.

Q3. WHY CAN NO ONE REFUSE TO ACCEPT PAYMENT IN RUPEES?

VERY SHORT QUESTIONS:

Q1. WHY ARE THE DEPOSITS IN THE BANK ACCOUNT CALLED DEPOSITS?

Q2. WHY DO WE NEED A CONSTITUTION?

PROJECT WORK:

Project-Based Question for "Ek Bharat Shreshtha Bharat" Chart

Activity:

Design a creative chart showcasing the cultural diversity and unity of India under the 'Ek Bharat Shreshtha Bharat' initiative. Focus on a pair of Indian states (e.g., Kerala-Himachal Pradesh or Tamil Nadu-Jammu & Kashmir) and highlight their unique traditions, languages, festivals, and cuisines. Include visuals, slogans, and a personal pledge promoting national integration. Explain how this initiative strengthens India's unity.



Have a great



VaCaTion!