

KENDRIYA VIDYALAYA HATTA

SUMMER VACATION HOME-WORK (2026-27)

SUBJECT-MATHS

CLASS-10TH

1. Prove that:

- a) $\sqrt{2}$ is an irrational number. $\sqrt{3}$ is an irrational number.

2. Write 5 examples each of:

*Linear polynomial * Quadratic polynomial *Cubic polynomial

3. Find the HCF and LCM of 56 and 72 using prime factorization.

4. For the quadratic polynomial $x^2 - 5x + 6$, find its zeros and verify the relationship between the zeros and the coefficients.

5. Verify that:

- $\text{HCF} \times \text{LCM} = \text{Product of the two numbers for } (48, 84).$

6. Find the prime factorisation of 360 and express it as a product of primes.

7. Prove that $3 + 2\sqrt{5}$ is irrational.

8. Prove that $7\sqrt{2}$ is irrational.

9. Write the degree and number of terms in the following polynomials:

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

10. Find the zero(s) of the following polynomials:

- $x^2 - 7x + 10$
- $x^2 + 2x - 15$
- $x^2 - 9$

11. If α and β are the zeros of the polynomial $x^2 - 3x + 2$, find:

$(\alpha + \beta)$ and $\alpha\beta$

Verify the relationship with coefficients.

12. Form a quadratic polynomial whose sum and product of zeroes are:

(a) 4, 1 (b) $-3, 2$

13. If one zero of the polynomial $x^2 + kx + 6$ is 2, find the value of k and the other zero.

14. Form a pair of linear equations in two variables using the following information and solve it graphically: Five years ago, Sheela was twice as old as Tina. Ten years later Sheela's age will be ten years more than Tina's age. Find their present ages. What was the age of Sheela when Tina was born?

15. Madhu went to a bank to withdraw 10000. He asked the cashier to give her 100 and 200 notes only. Madhu got 60 notes in all. Find how many notes of 100 and 200 she received.

KENDRIYA VIDYALAYA HATTA

SUMMER VACATION HOME-WORK (2026-27)

SUBJECT-MATHS

CLASS-9TH

Instructions for Submission:

- Use Homework note for solving and don't write solutions from the google/internet.
 - Graphs must be drawn on proper graph paper (if required).
 - Submission Date: First day after summer vacation.
 - All work must be handwritten.
 - Marks will be awarded for neatness, completeness, and creativity.
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• **Coordinate Plane Drawing**

Draw x-axis and y-axis, mark origin and label 4 quadrants.

• **Plotting Points**

Plot 5 points like (2,3), (-3,2), (-2,-4), (3,-5), (0,4).

• **Identify Quadrants**

Write quadrant of given 5 points.

• **Distance Activity**

Find distance between two points using formula.

• **Real Life Grid Activity**

Draw a room/map and show positions using coordinates.

• **Terminology Hunt** Look at the expression $4x+5y+3$ from. List out each **term**, identify the **variables** used, find the **coefficients** for each variable, and name the **constant**.

• **Real-World Modeling** Raju bought x red boxes (7pens each) and y blue boxes (9 pencils each), plus 11 extra free pens. Write the algebraic expression for the total items. Then, calculate the total if Raju bought 4 red boxes and 6 blue boxes.

• **Perimeter Patterns** The perimeter of a square with side x is $4x$. Create a table showing the perimeters for squares with sides of 1 cm, 2 cm, 3 cm, 4 cm, and 5 cm. State the constant amount the perimeter increases by each time the side increases by 1 cm.

KENDRIYA VIDYALAYA HATTA
SUMMER HOLIDAY HOME WORK (2026-27)
CLASS-VIII
SUBJECT – MATHEMATICS

- **Large Numbers Poster**
Write 5 large numbers from daily life in figures and words.
- **Number Expansion**
Expand any 5 numbers.
- **Arithmetic Expressions**
Make and solve 3 expressions from daily life.
- **Comparison Activity**
Arrange 5 large numbers in increasing order.
- **Place Value**
Write place value of digits in any 3 big numbers.
- **Paper Folding Activity**
Write thickness after 1–10 folds.
- **Exponential Form**
Convert 5 numbers into exponential form.
- **Scientific Notation**
Write 5 large numbers in standard form.
- Write a short story or diary entry titled “**A World Without Numbers**”.

□ **Instructions for Students:**

- Use regular notebook for your work.
- Be neat, creative, and original.
- Use drawings, colors, and photos wherever possible.
- Submit it when school reopens.

KENDRIYA VIDYALAYA HATTA
SUMMER HOLIDAY HOME WORK (2026-27)
CLASS-VII
SUBJECT – MATHEMATICS

Here is a **simple list of 6 creative summer homework tasks**:

1. **My Life in Large Numbers**

Make a poster using big numbers from daily life (write in figures & words).

2. **One Lakh Activity**

Calculate how many things you can do in 100 years (1/day, 2/day, etc.).

Inspired by the rice story from the chapter:

- If you eat **1 item per day**, how many in 100 years?
- What if **2 items per day**?
- Will you reach **1 lakh**?

☐ Show calculation and write your conclusion:

“Is 1 lakh big or small? Why?”

3. **Creative Calculator Game**

Write 2 different expressions to make numbers like 5072, 8300.

4. **Math Story**

Write 2 short real-life stories and form expressions with answers.

5. **Expression Puzzle**

Make 5 expressions and arrange them in increasing order.

6. **City Population Chart**

Take 5 cities, write population, compare and round off.

☐ **Instructions for Students:**

- Use regular notebook for your work.
- Be neat, creative, and original.
- Use drawings, colors, and photos wherever possible.
- Submit it when school reopens.

SUMMER VACATION HOMEWORK

ENGLISH – CLASS X

General Instructions

Complete all work neatly in notebook.

Maintain proper handwriting and presentation.

Use colours, pictures, and creativity wherever needed.

Revise all completed syllabus regularly.

Read English daily for at least 20 minutes.

SECTION A – READING SKILLS

1. Reading Habit

Read: Any one English novel/storybook OR Newspaper articles for 15 days.

After Reading:

Write:

- Name of the book/article
- Author's name
- A short summary (80–100 words)

SECTION B – WRITING SKILLS

1. Article Writing

Write TWO articles (150–200 words each):

- Social Media: Advantages and Disadvantages
- Value of Education



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SECTION C – GRAMMAR PRACTICE

Practice the following topics in your notebook:

- Tense
- Subject-Verb Agreement

SECTION D – LITERATURE

1. Poem Activity

Learn any one poem from your textbook and write:

Central Idea, Rhyme Scheme, Poetic Devices used

>>>SPEAKING ACTIVITY

Prepare a 2-minute speech on any ONE topic:

Importance of English

My Aim in Life

India in 2047

>>>>Teacher's note

Enjoy your Summer Vacation with joy and creativity. Complete your homework sincerely and come back with new energy and learning!



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SUMMER VACATION HOMEWORK

ENGLISH – CLASS IX

General Instructions

Complete all work neatly in notebook.

Maintain proper handwriting and presentation.

Use colours, pictures, and creativity wherever needed.

Revise all completed syllabus regularly.

Read English daily for at least 20 minutes.

SECTION A – READING SKILLS

1. Reading Habit

Read: Any one English novel/storybook OR Newspaper articles for 15 days.

After Reading:

Write:

- Name of the book/article
- Author's name
- A short summary (80–100 words)

SECTION B – WRITING SKILLS

1. Article Writing

Write TWO articles (150–200 words each):

- Social Media: Advantages and Disadvantages
- Value of Education



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SECTION C – GRAMMAR PRACTICE

Practice the following topics in your notebook:

- Explain Parts of speech in detail
- Subject-Verb Agreement

SECTION D – LITERATURE

1.Poem Activity

Learn any one poem from your textbook and write:

Central Idea,Rhyme Scheme,Poetic Devices used

>>>SPEAKING ACTIVITY

Prepare a 2-minute speech on any ONE topic:

Importance of English

My Aim in Life

India in 2047

>>>>Teacher's note

Enjoy your Summer Vacation with joy and creativity. Complete your homework sincerely and come back with new energy and learning.

Enjoy the break, but keep growing🌱



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SUMMER VACATION HOMEWORK

English class 8th

General Instruction

Complete all work neatly in a notebook.

Maintain good handwriting.

Read English for at least 20 minutes daily.

Section A – Reading Skills

1. Reading Task

Read any one English storybook/Short story suitable for your age and write:

Name of the book, Name of the author, Main characters, Short summary (100–120 words), Moral of the story

Section B – Writing Skills

2. Paragraph Writing

Write paragraphs (80–100 words each) on: • Importance of Reading, • Digital India

3. Picture Composition; Paste or draw a picture and write 8–10 sentences about it.

Section C – Grammar Practice

4. parts of speech ~ Explain all parts with example

5. Clause and its type (with 5 examples each)

SECTION D – LITERATURE ACTIVITY

6. Poem Activity

Learn any one poem from your textbook and write:

Central Idea, Rhyme Scheme, Poetic Devices used



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>>>>Speaking activity

Practice speaking in English daily for 5-10 minutes on simple topics like:

Myself

My Family

My School

My Favourite Game

>>>>Teacher's Note

Enjoy your Summer Vacation with joy and creativity. Complete your homework sincerely and come back with new energy and learning!



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SUMMER VACATION HOMEWORK

English class 7th

General Instructions

Complete all work neatly in a notebook.

Maintain good handwriting.

Read English for at least 20 minutes daily.

Section A – Reading Skills

1. Reading Task

Read any one English storybook/Short story suitable for your age and write:

Name of the book, Name of the author, Main characters, Short summary (100–120 words), Moral of the story

Section B – Writing Skills

2. Paragraph Writing

Write paragraphs (80–100 words each) on: My Favourite Festival \OR\ If I Were a Bird

3. Picture Composition; Paste or draw a picture and write 8–10 sentences about it.

Section C – Grammar Practice

4. Write and practice: 20 Nouns, 20 Pronouns, 20 Verbs, 20 Adjectives

5. Tenses Activity; Present Tense, Past Tense, Future Tense (with 5 examples each.)

6. Vocabulary Work; 20 Synonyms, 20 Antonyms, 10 Homophones, 10 Homonyms

SECTION D – LITERATURE ACTIVITY

1. Poem Recitation

Learn and recite any ONE poem from your English textbook.



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>>>>Speaking activity

Practice speaking in English daily for 5–10 minutes on simple topics like:

Myself

My Family

My School

My Favourite Game

>>>>Teacher's Note

Enjoy your Summer Vacation with joy and creativity. Complete your homework sincerely and come back with new energy and learning!



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SUMMER VACATION HOLIDAY HOMEWORK

ENGLISH – CLASS VI

General Instructions

Complete all work neatly in notebook.

Maintain proper handwriting and presentation.

Read English daily for at least 15–20 minutes.

Submit the holiday homework after summer vacation.

SECTION A – READING SKILLS

1. Reading Activity

Read: Any English storybook OR One short story every week.

After Reading:

Write: Name of the story, Name of the author, 5 new words with meanings, Moral of the story

(Do this for at least 1 stories.)

SECTION B – WRITING SKILLS

1. Paragraph Writing; Write any TWO paragraphs (80–100 words each):

- My Best Friend, • Importance of Trees, • My Favourite Festival, • My Favourite Hobby

2. Picture Composition

Paste or draw a picture and write 8–10 sentences about it.

SECTION C – GRAMMAR PRACTICE

1. Parts of Speech

Write 10 examples each of: • Noun, • Pronoun, • Verb • ,Adjective

3. Tense; Write 5 examples each of: Simple Present Tense, Simple Past Tense, Simple Future Tense

4. Vocabulary Work; 10 antonyms, 10 synonyms, 10 Homonyms, 10 HOMOPHONES



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SECTION D – LITERATURE ACTIVITY

1. Poem Recitation

Learn and recite any ONE poem from your English textbook.

>>>>Speaking activity

Practice speaking in English daily for 5–10 minutes on simple topics like:

Myself

My Family

My School

My Favourite Game

>>>>Teacher's note

Enjoy your Summer Vacation with joy and creativity. Complete your homework sincerely and come back with new energy and learning!

ENJOY THE BREAK, BUT KEEP GROWING. 



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हिंदी ग्रीष्मकालीन गृहकार्य

- वर्णमाला लिखे एवं याद करे
- 30 पेज सुलेख (लिखावट का विशेष ध्यान रखे)
- किसी 1 व्यक्ति की आत्मकथा पढ़े पुस्तक का नाम, व्यक्ति का जीवन परिचय एवं पुस्तक का सारांश लिखे।

2:17 pm ✓

Maths homework

- Learn and write table from (2-20)
- Make a chart of 2D and 3D shape with example
- Write 20 question on pattern based
- What is fraction, it's types and examples.

2:06 pm ✓

Worksheet: Papa's Spectacles (Class V)

Section A: Answer the following questions

1. What problem was Papa facing?

Answer: _____

2. Why was Papa unable to read the newspaper?

Answer: _____

3. Name two places where Papa searched for his spectacles.

Answer: _____

4. Who helped Papa find his spectacles?

Answer: _____

5. What was funny about the situation?

Answer: _____

Section B: Grammar

6. Identify the part of speech of 'under' in the sentence: He searched under his chair.

Answer: _____

7. Fill in the blanks with suitable prepositions:

Papa looked _____ the table and _____ his pockets.

8. Write the plural forms:

(a) spectacle _____

(b) pocket _____

(c) chair _____

9. Rearrange the words:

everywhere / searching / was / papa

Answer: _____

10. Change into past tense:

Papa is searching for his spectacles.

Answer: _____

Subject: English

1. My Self Introduction

- Learn and write your self-introduction in your notebook.
- Write 8–10 simple sentences about yourself (name, age, class, school, hobbies, etc.).

2. Handwriting Practice

- Read and write 3 short stories and 3 poems neatly in your notebook.
- Write 8–10 sentences about your favourite things (favourite person, place, food, game, etc.).

3. Poem Learning with Action

- Learn 2 new poems (other than your textbook).
- Practice them with actions and proper expressions.

4. Alphabet Nature Activity

- Go on a nature walk with your parents.
- Write 3 things for each alphabet letter in a small notebook.
(Example: A – Ant, Apple, Air | B – Bird, Butterfly, Ball)
- Draw and colour at least 5 things you liked the most.

5. Role Play Activity

- Choose your favourite profession (Doctor, Teacher, Police, Chef, etc.).
- Dress up like that character and record a short video.
- Speak 3–4 simple lines about your role.

Example:

1. Good morning, everyone.
2. My name is _____.
3. I am a _____.
4. I help people by _____.

Holiday Homework Class V Subject: TWAU

Section A: Answer the following questions

1. Why is water called the essence of life?
2. What are the three forms of water? Give one example of each.
3. What is the water cycle?
4. What is groundwater?
5. Why can't we drink ocean water?

Section B: Activity-based questions

6. Observe a glass of ice. What changes do you notice?
7. Draw and label the water cycle.
8. Observe a nearby water source and list 3 plants or animals.
9. Pour water into soil. What happens?
10. Design a water-saving house or school. Write 3 ideas.

Summer Vacation Homework

Class 3

Maths

1. Write and learn table from 2 to 20.
2. Write counting from 1 to 100. (Numbers, Hindi, English)
3. Make a chart of 2D and 3D shapes.
4. Make a model of any two 3D shapes.
5. Learn 1 to 100 counting forward and backward. (Hindi and English)

English

1. One page writing daily.
2. Noun, Pronoun, Adjective, Verb (Definition and its type with examples)
3. Application for leave.
4. Ten sentences speech on 'My Country' and 'My School'.

हिंदी

1. प्रतिदिन 1 पेज शुद्धलेख।
2. पर्यायवाची शब्द और विलोम शब्द (50-50)
3. अ से ज तक वर्णमाला। (लिखना व याद करना)
4. क से ज तक बारहखड़ी।

SUMMER VACATION HOMEWORK

CLASS 4TH - ENGLISH

1. Read 1 page daily.
2. Write 15 action words.
3. Learn 2 words in a day related to your daily life.
4. Write 10 pages.
5. Prepare 1 story with proper pronunciation and expression.

हिन्दी गृहकार्य कक्षा - 4

1. 1 पाठ रोज पढ़ना हैं ।
2. अच्छी लिखावट मे 10 पेज लिखना हैं ।
3. हिन्दी की किताब में से नए 20 शब्दों का सही उच्चारण करना है ।
4. आपने छुट्टियों में नया क्या सीखा कैसे छुट्टियां बिताई हैं आपको अपनी कहानी लिखना है ।

Summer Vacation Homework- Class 4 (English)

1. Write a paragraph (8-10 lines) on 'How I Spent My Summer Vacation'.
2. Write 10 new English words daily and learn their meanings.
3. Make sentences using any 15 new words you learned.
4. Read any one storybook and write a short summary (5-6 lines).
5. Write a letter to your friend describing your holidays.
6. Practice handwriting: Write one page daily in neat handwriting.
7. Learn and write any one poem and practice reciting it.
8. Identify nouns, verbs, and adjectives from a paragraph and write them separately.
9. Write 5 sentences each on the following topics:
 - a) My Best Friend
 - b) My Favorite Teacher
 - c) My Favorite Game
10. Revise basic grammar topics: Noun, Pronoun, Verb, Adjective, and Tenses.