

CLASS-12

ग्रीष्मकालीन अवकाश गृहकार्य

1 परियोजना कार्य

2 गत वर्षों के 2 बोर्ड प्रश्न पत्र हल करो notebook में

3 पूरक पाठ्य पुस्तक के तीनों पाठ का अध्ययन

Class XII Holidays' Homework Write answers to these questions in your fair note book. Answer the questions in 40-50 words.

- 1] Why does Franz call his books his "old friends" at the end? What does this show about his mindset?
2. If Franz had known earlier that it was the last lesson, how might his behavior have been different?
3. How does the story show that opportunities should not be taken for granted?
4. Compare Franz's initial attitude with his final realization. What message does it give students?
5. How is M. Hamel's silence at the end more powerful than words?
6. How does the story teach respect for one's language and culture?
7. Describe the emotional atmosphere of the classroom on the last day.
8. How does the story show that procrastination can lead to regret?
9. Explain the role of M. Hamel as a symbol of resistance and love for language.
10. Why does the poet suddenly look outside at the young trees and children?
11. How does the contrast between youth and old age deepen the poem's theme?

12. What does the poet mean by “the ache” and how is it related to her childhood?
13. Why does the poet smile at the end despite her sadness?
14. What does the story teach us about dealing with stress?
15. Is escaping from reality a good solution? Why or why not?
16. How can people find peace in today’s fast-paced life?
17. Why does Charley prefer the world of 1894 over the present?
18. How does the story reflect the theme of escapism?
19. What role does Sam’s letter play in the story?
20. Do you think the third level really exists, or is it imagination? Explain.
Answer the question in 120-150 words. 5m
21. Describe the importance of language in maintaining cultural identity, as shown in the lesson.
22. Describe Franz’s transformation from a careless student to a responsible one.
23. “Procrastination leads to regret.” Write a short paragraph (120–150 words) relating this idea to Franz’s experience in the lesson.
24. If you found a “third level” in real life, where would you go and why?
25. Relate the story to modern-day stress and anxiety.
26. Write a short paragraph imagining your own escape from reality.

Summer Vacation Holiday Homework for Class XII Physics

Unit I: Electrostatics

Chapter 1: Electric Charges and Fields

- 1 Define an electric charge. What are the two types of electric charges?
Discuss the properties of electric charges.
- 2 What is the law of conservation of charge? Explain with an example.
- 3 Explain why like charges repel and opposite charges attract, in terms of the electric field.
- 4 Discuss the concept of quantization of charge. How is the unit of charge defined?
- 5 State Coulomb's law and explain its significance.
- 6 Explain the dependence of the force between two charges on the magnitude of the charges and the distance between them.
- 7 Two charges of $+4 \mu\text{C}$ and $-2 \mu\text{C}$ are placed 3 meters apart. Calculate the force between them.
- 8 If the distance between two charges is doubled, how does the force change? Solve using Coulomb's Law.
- 9 Calculate the net force on a charge of $3 \mu\text{C}$ placed at the origin due to two charges of $+4 \mu\text{C}$ and $-2 \mu\text{C}$ placed at $(3,0)$ and $(-3,0)$ meters respectively.
- 10 Define the electric field and explain the concept of the electric field due to a point charge. Derive an expression for the electric field due to a point charge.
- 11 What are the properties of electric field lines? Draw the electric field lines for a positive and a negative point charge.
- 12 Discuss the relation between electric field and electric potential.
- 13 Calculate the electric field at a point 2 meters away from a charge of $+5 \mu\text{C}$.
- 14 A charge of $+10 \mu\text{C}$ is placed at the center of a spherical Gaussian surface. What is the electric flux through the surface?
- 15 Define an electric dipole and discuss its characteristics.

What is the torque experienced by a dipole in a uniform electric field?

Derive the expression for torque.

16 What is the potential energy of an electric dipole in a uniform electric field? Derive the expression for the potential energy.

17 Calculate the torque experienced by a dipole of dipole moment 8×10^{-2} C·m placed at an angle of 30° to a uniform electric field of 1×10^3 N/C.

18 A dipole with a dipole moment of 6×10^{-3} C·m is placed in an electric field of strength 5×10^4 N/C. Calculate the potential energy when the dipole is aligned parallel to the electric field.

19 What is electric flux? State Gauss's law and discuss its significance.

Derive the electric field due to a uniformly charged infinite plane sheet using Gauss's law. Discuss the electric field inside and outside a uniformly charged spherical shell using Gauss's law.

*20 What is an equipotential surface? Discuss its properties.

Derive the electric potential due to a dipole at a point on its axial line and equatorial line. Explain the relationship between electric field and potential.

21 Define the electrostatic potential energy of a system of charges. Derive an expression for the potential energy of two point charges in an electrostatic field.

22 Calculate the potential energy of a system of two-point charges, $+3 \mu\text{C}$ and $-4 \mu\text{C}$, placed 2 meters apart.

A system consists of three charges: $+2 \mu\text{C}$, $-3 \mu\text{C}$, and $+5 \mu\text{C}$ placed at the vertices of an equilateral triangle. Calculate the total potential energy of the system.

23 Draw variation of electric field (E) with distance (r) for a point charge.

(a) Explain the nature of the graph.

(b) What happens as $r \rightarrow \infty$?

24 In a photocopier machine, electrostatic charges are used.

(a) Briefly explain how electrostatics is used in photocopying.

(b) Identify the role of electric field in this process.

Holidays Homework

Class XII(Chemistry)

1. Read Unit 1,2.
2. Solve PYQ's provided for both units.
3. Prepare your investigatory project.

Choose the correct answer. Write the option letter AND the text of your answer.

Q1. Which of the following is an IMMUTABLE data type in Python?

- (a) List
- (b) Dictionary
- (c) Tuple
- (d) Set

Answer: _____

Q2. What will be the output of the following statement? `print(type(10/2))`

- (a) <class 'int'>
- (b) <class 'float'>
- (c) <class 'str'>
- (d) Error

Answer: _____

Q3. Which keyword is used to define a function in Python?

- (a) func
- (b) define
- (c) def
- (d) function

Answer: _____

Q4. Identify the OUTPUT of the following: `S = "MISSISSIPPI" print(S[:4] + "#" + S[-5:])`

- (a) MISS#SIPPI
- (b) MISS#IPPI
- (c) MISS#ISSI
- (d) MISI#SIPPI

Answer: _____

Q5. A variable defined inside a function and NOT accessible outside it is called a:

- (a) Global variable
- (b) Default variable
- (c) Local variable
- (d) Static variable

Answer: _____

Q6. Which of the following function calls uses KEYWORD arguments?

- (a) `area(5, 10)`
- (b) `area(l=5, b=10)`
- (c) `area(5)`
- (d) `area()`

Answer: _____

Q7. What is the output? `def fun(x, y=10):` `return x + y` `print(fun(5))`

- (a) 5
- (b) 10
- (c) 15
- (d) Error

Answer: _____

Q8. Which of the following correctly identifies a SYNTAX ERROR?

- (a) `5 + 3.0`
- (b) `'15' + 3`
- (c) `print 'Hello'`
- (d) `x = True + 1`

Answer: _____

Q9. What will be the output? `L = [10, 20, 30, 40]` `print(L[1:3])`

- (a) `[10, 20]`
- (b) `[20, 30]`
- (c) `[20, 30, 40]`
- (d) `[10, 20, 30]`

Answer: _____

Q10. The ``global`` keyword inside a function is used to:

- (a) Create a new local variable
- (b) Refer to and modify a global variable
- (c) Delete a global variable
- (d) Make a variable read-only

Answer: _____

SECTION B — Assertion & Reasoning Questions [10 × 1 = 10 Marks]

Direction: Read both Assertion (A) and Reason (R) carefully. Choose the correct option:

- (a) Both A and R are TRUE, and R is the correct explanation of A.
- (b) Both A and R are TRUE, but R is NOT the correct explanation of A.
- (c) A is TRUE but R is FALSE.
- (d) A is FALSE but R is TRUE.

Q1.

Assertion (A): In Python, strings are immutable.

Reason (R): You cannot change individual characters of a string using indexing (e.g., `s[0]='A'` raises a `TypeError`).

Answer: _____

Q2.

Assertion (A): Positional arguments in Python must be passed in the exact order as defined in the function signature.

Reason (R): Python functions automatically assign default values to positional arguments.

Answer: _____

Q3.

Assertion (A): A function can return multiple values in Python.

Reason (R): Python returns multiple values as a tuple when separated by commas in the return statement.

Answer: _____

Q4.

Assertion (A): The `global` keyword must be used inside a function to read a global variable.

Reason (R): Without `global`, a function can READ a global variable but cannot modify it unless `global` is declared.

Answer: _____

Q5.

Assertion (A): Python lists and tuples both support indexing and slicing.

Reason (R): Both lists and tuples are sequence types in Python; the key difference is mutability.

Answer: _____

Q6.

Assertion (A): A function without an explicit `return` statement returns `None` by default.

Reason (R): The `return` statement is mandatory in every Python function.

Answer: _____

Q7.

Assertion (A): Default parameters in a function definition must always appear AFTER positional (non-default) parameters.

Reason (R): If default parameters appear before positional ones, Python raises a `SyntaxError` due to ambiguity in argument mapping.

Answer: _____

Q8.

Assertion (A): The `len()` function can be used on strings, lists, tuples, and dictionaries.

Reason (R): All four are sequence or collection types that store multiple elements and support `len()`.

Answer: _____

Q9.

Assertion (A): Logical errors in Python are detected by the interpreter at runtime.

Reason (R): Logical errors produce incorrect output but do not crash the program; they must be found through testing and debugging.

Answer: _____

Q10.

Assertion (A): In Python, a variable defined inside an ``if`` block is accessible outside that block in the same function.

Reason (R): Python uses function scope (not block scope), so variables defined inside ``if``, ``for``, or ``while`` blocks are accessible throughout the function.

Answer: _____

SECTION C — Case-Based Questions [10 × 2 = 20 Marks]

Read each case carefully and answer the questions that follow:

CASE 1: The Library Management Program

Ananya is building a library management system in Python. She writes the following code:

```
books = ['Python Basics', 'Data Science', 'AI Foundations', 'Web Dev']  
  
def search_book(title, lib=books):  
    if title in lib:  
        return 'Book Found: ' + title  
    else:  
        return 'Not Available'  
  
result = search_book('AI Foundations')  
print(result)  
print(search_book('Cloud Computing'))
```

QC1.1. What type of argument is `lib=books` in the function definition? What is it called, and what is its purpose? (2 marks)

QC1.2. Write the output produced by this program when it is executed. (2 marks)

CASE 2: Score Calculator

Rahul's teacher gave him the following Python code and asked him to find the output and spot the scope of variables:

```
score = 100  
  
def update(marks):  
    global score  
    score = score + marks  
    bonus = 10
```

```
print('Inside function:', score, bonus)

update(25)

print('Outside function:', score)

# print(bonus) <- if uncommented, what happens?
```

QC2.1. Write the exact output produced by the above code. (2 marks)

QC2.2. What will happen if the commented `print(bonus)` line is uncommented and executed? Name the type of error that will occur and explain why. (2 marks)

CASE 3: String Operations — Palindrome Checker

Observe the following Python code written by Meera for a string-based task:

```
S = "Racecar Car Radar"
L = S.split()
for W in L:
    x = W.upper()
    if x == x[::-1]:
        for I in x: print(I, end="*")
    else:
        for I in W: print(I, end="#")
print()
```

QC3.1. Write the complete output of the above code step by step. (2 marks)

QC3.2. What does `x[::-1]` do? What concept from Python Revision Tour does this belong to? (2 marks)

CASE 4: Mutable vs Immutable in Functions

Vikram passes a list and a number to two different functions and observes the results:

```
def modify_list(lst):  
    lst.append(99)  
    print('Inside:', lst)  
  
def modify_num(n):  
    n = n + 10  
    print('Inside:', n)  
  
my_list = [1, 2, 3]  
my_num = 5  
modify_list(my_list)  
modify_num(my_num)  
print('Outside list:', my_list)  
print('Outside num:', my_num)
```

QC4.1. Write the complete output of this code. (2 marks)

QC4.2. Why does `my_list` change outside the function but `my_num` does not? Explain using the concept of mutable and immutable types. (2 marks)

CASE 5: Dictionary Operations

Ritu writes the following code during a Python revision exercise:

```
D = {'month': 'DECEMBER', 'exam': 'PREBOARD1'}  
D['month'] = 'JANUARY'  
D['EXAM'] = 'PRE2'
```

```
print(D.items())  
print(len(D))  
for k in D:  
    print(k, '->', D[k])
```

QC5.1. Write the complete output of this code. (2 marks)

QC5.2. Why does the dictionary have 3 keys instead of 2 after the update? Relate this to how Python dictionary keys work. (2 marks)

SECTION D — Competency-Based Questions [10 × 3 = 30 Marks]

Answer in 3-5 sentences. Use examples wherever relevant. Apply and Analyse level questions (HOTS).

QD1. Differentiate between MUTABLE and IMMUTABLE data types in Python. Give TWO examples of each. Why does this distinction matter when passing arguments to functions? (3 marks)

QD2. Explain the FOUR types of function arguments in Python with syntax and one example each: Positional, Default, Keyword, and Variable-length. (3 marks)

QD3. What is LOCAL scope and GLOBAL scope in Python? Explain the LEGB rule (Local–Enclosing–Global–Built-in) with a suitable example. (3 marks)

QD4. Distinguish between the following Python string methods with examples: (i) find() vs index() (ii) split() vs join() (iii) strip() vs replace() (3 marks)

QD5. Rohan writes a function that is supposed to return BOTH the sum AND the product of two numbers but it only seems to return one value. Explain how Python supports returning multiple values from a function. Write a correct version of such a function. (3 marks)

QD6. Compare LIST, TUPLE, and DICTIONARY in Python under: (i) Mutability (ii) Ordering (iii) Syntax (iv) Use case. Present as a table or structured comparison. (3 marks)

QD7. Explain what happens step-by-step when Python executes: `V=50 ; def Change(N): global V ; V=N,N,V ; print(V,N,sep='#',end='@') ; Change(20) ; print(V)` — trace the output and explain global variable behavior. (3 marks)

QD8. What is IMPLICIT TYPE CONVERSION in Python? How does it differ from EXPLICIT TYPE CONVERSION (typecasting)? Give TWO examples of each. (3 marks)

QD9. Neha wrote a function `def calc(a, b=5, *args)` and called it as `calc(1, 2, 3, 4)`. Predict what `a`, `b`, and `args` will contain during this call. Explain the role of `*args` in Python functions. (3 marks)

QD10. Describe any THREE common types of Python errors (Syntax, Runtime, Logical) with one original example of each. Explain how you would detect and fix each type. (3 marks)

SECTION E — Programming Questions [10 × 3 = 30 Marks]

This section has 4 sub-types: (i) Output Finding (ii) Error Finding & Correction (iii) Function Writing (iv) Mini Programs. All answers must be in Python.

PART E-I — Find the Output (Questions P1 to P4)

QP1. Write the output of the following Python code: (3 marks)

```
def mystery(s):
    result = ''
    for i in range(len(s)-1, -1, -2):
        result += s[i]
    return result

print(mystery("KEYBOARD"))
print(mystery("PYTHON"))
```

Output:

QP2. Find all possible outputs of the following code. Also state the minimum and maximum values of `b` : (3 marks)

```
import random
a = "Wisdom"
b = random.randint(1, 6)
for i in range(0, b, 2):
    print(a[i], end="#")
```

Possible Outputs / Min-Max of b:

QP3. Write the output of this code step by step: (3 marks)

```
T = (9, 18, 27, 36, 45, 54)
L = list(T)
```

```
L1 = []
for i in L:
    if i % 6 == 0:
        L1.append(i)
T1 = tuple(L1)
print(T1)

D = {1:'one', 2:'two', 3:'three'}
res = []
for k, v in D.items():
    if 'o' in v:
        res.append(k)
print(res)
```

Output:

QP4. Trace and write the output of this function-based code: (3 marks)

```
c = 10
def add():
    global c
    c = c + 2
    print(c, end='#')

add()
c = 15
print(c, end='%')

def FunStr(S):
    T = ''
    for i in S:
        if i.isdigit():
            T = T + i
    return T
```

```
X = "PYTHON 3.9"
Y = FunStr(X)
print(X, Y, sep="*")
```

Output:

PART E-II — Error Finding & Correction (Questions P5 & P6)

QP5. The following code has SYNTAX and LOGICAL errors. Rewrite the corrected code. Underline ALL corrections made: (3 marks)

```
def swap_first_last(tup)
    if len(tup) < 2:
        return tup
    new_tup = (tup[-1],) + tup[1:-1] + (tup[0])
    return new_tup

result = swap_first_last((1, 2, 3, 4))
print("Swapped tuple: " result)
```

Errors found and corrected code:

QP6. Identify the errors in this function, state the type of each error, and write the corrected version: (3 marks)

```
def calculate_average(numbers)
    total = 0
    for num in numbers:
        total = total + num
    avg = total / len(numbers)
    print average
```

```
return avg
```

```
marks = [85, 90, 78, 92, 88]
```

```
result = calculate_average(marks)
```

```
print("Average:", Result)
```

Errors and corrected code:

PART E-III — Write the Functions (Questions P7 to P10)

QP7. Write a Python function `COUNT_VOWELS(sentence)` that takes a string as input and returns the count of vowels (a, e, i, o, u — both upper and lower case) in the string. Also call the function with the input 'Hello World from India' and display the result. (3 marks)

QP8. Write a Python function `SECOND_LARGEST(lst)` that accepts a list of integers and returns the second largest element without sorting the list. Handle the case where the list has fewer than 2 elements. (3 marks)

QP9. Write a Python function `WORD_FREQUENCY(sentence)` that takes a string sentence as input and returns a dictionary where keys are words and values are their frequency count. Ignore case (treat 'Python' and 'python' as the same word). (3 marks)

QP10. [PYQ Pattern — 2025 CBSE Board Style] Write a user-defined function `STUDENT_GRADE(name, marks)` in Python that: (i) Accepts a student's name and a list of marks (5 subjects). (ii) Calculates the percentage. (iii) Assigns a grade: A+ (≥ 90), A (≥ 80), B (≥ 70), C (≥ 60), D (below 60). (iv) Returns and prints both the percentage and the grade. Call the function with `name='Arjun'` and `marks=[88, 92, 76, 85, 90]`. (3 marks)

★ BONUS ACTIVITY (Optional — Extra Credit) ★

Create a Python mini-project: 'Student Report Card Generator'

- Takes names and marks (5 subjects) for at least 5 students using functions.
- Uses global variables to keep track of class topper.
- Uses lists and dictionaries to store and retrieve data.
- Displays a formatted report card for each student with percentage and grade.
- Write the complete code in your notebook AND execute it — paste the screenshot output.

Best entries will be rewarded and displayed on the school CS board! 🏆

आवकाशिक गृहकार्यम्

विषयः संस्कृतम्

कक्षा: दशमी (10)

* समयः (वादनम्, सपाद, सार्ध, पादोन) चित्रैः सहितम्

* पाठ्यक्रमे निर्धारित-अव्ययपदानां हिन्दीभाषायाम् अर्थम् लिखित्वा तेषाम् वाक्यप्रयोगं कुरुत।

यथा - अव्ययपदानि हिन्दीभाषायाम् अर्थम् वाक्यप्रयोगः

अत्र यहाँ पुस्तकम् अत्र अस्ति।

* अनौपचारिक पत्रम् (2)

* चित्रवर्णनम् (2) (विद्यालयः & उद्यानम्)

* स्वर-सन्धीनां पुनरावृत्तिः कृत्वा प्रत्येकस्य उदाहरणानि लिखत।

यथा- यण्-सन्धिः= इ/ई + अच् = य्। उ/ऊ + अच् = व्। ऋ + अच् = र्

उदाहरणानि -

* किम् शब्दरूपाणि लिखत (पुँल्लिङ्ग-स्त्रीलिङ्ग-नपुंसकलिङ्गाः)।

* धातुरूपाणि (पठ्, अस्, सेव) लट्-लृट्-लङ्-लोट्-विधिलिङ् लिखत।

संस्कृत में छात्र-प्रतिज्ञा याद करके लिखें।(यह आपसे सुनी जायेगी)

Holiday Homework – Class X Science

Chapter: Reflection of Light

1. Define reflection of light.
2. State the two laws of reflection.
3. What is meant by normal in reflection?
4. Define angle of incidence and angle of reflection.
5. What type of image is formed by a plane mirror?
6. What is lateral inversion?
7. Define pole and centre of curvature of a spherical mirror.
8. Draw a ray diagram to show reflection from a plane mirror.
- 9 Explain why the image formed by a plane mirror is virtual and erect.
10. Differentiate between concave and convex mirrors (at least 3 points).
11. Write two uses each of concave and convex mirrors.

12. Define focal length and radius of curvature. How are they related?

SUMMER HOLIDAY HOMEWORK

CLASS X

SUB : MATHEMATICS

Do in class work/Homework notebook and submit on 23/06/2025

REAL NUMBERS

1. The ratio of two numbers is 3 : 4 and their H.C.F. is 4. Find their L.C.M.
2. Find the HCF of $(3^3 \times 5^2 \times 2)$, $(3^2 \times 5^3 \times 2^2)$ and $(3^4 \times 5 \times 2^3)$.
3. Find the least positive integer divisible by 20, 24 and 32.
4. If $a = 2^3 \times 3$, $b = 2 \times 3 \times 5$, $c = 3^n \times 5$ and $\text{LCM}(a,b,c) = 2^3 \times 3^2 \times 5$, then find n.
5. Find the least number that is divisible by all the numbers 1 to 10 (both inclusive).
6. If two positive integers p and q can be expressed as $p = ab^2$ and $q = a^3b$; a, b being prime numbers, then find $\text{LCM}(p, q)$.
7. Find the greatest number which divides 85 and 72 leaving remainder 1 and 2 respectively.
8. Find the value of 'a', if $\text{HCF}(a, 18) = 2$ and $\text{LCM}(a, 18) = 36$.
9. The HCF of two numbers is 9 and their LCM is 2016. If one number is 54, then find the other number.
10. If p and q are two distinct prime numbers, then find their HCF.
11. Find the HCF of the smallest composite number and smallest prime number.
12. Find ratio of LCM and HCF of the least composite and the least prime numbers.
13. The LCM of two numbers is 14 times their HCF. The sum of LCM and HCF is 600. If one number is 280, then find the other number.
14. Show that the number 6^n never end with digit 0 for any natural number n.
15. Show that $(7 \times 13 \times 11) + 11$ and $(7 \times 6 \times 5 \times 4 \times 3 \times 2 \times 1) + 3$ are composite numbers.
16. Find HCF & LCM of (a) 625, 1125 and 2125 (b) 96 and 404 (c) 2120 and 108 using Fundamental Theorem of Arithmetic.
17. 2 Bells toll together at 9.00 am. They toll after 8 and 12 minutes respectively. At what time will they toll together first time after 9:00 am?
18. Given that $\sqrt{3}$ is irrational, prove that $2 - 5\sqrt{3}$ is irrational.
19. Prove that $\sqrt{5}$ is an irrational number.

20. Prove that $\sqrt{2} + \sqrt{3}$ is an irrational number.

21. Prove that $(\sqrt{3} + \sqrt{2})^2$ is an irrational number, given that $\sqrt{6}$ is rational.

POLYNOMIALS

22. If α, β are the zeroes of the polynomial $P(x) = 4x^2 + 3x + 7$, then find the value of $(1/\alpha + 1/\beta)$.

23. If p and q are the zeroes of the quadratic polynomial $f(x) = 2x^2 - 7x + 3$, find the value of $p + q - pq$.

24. If one zero of the quadratic polynomial $kx^2 + 3x + k$ is 2, then find the value of k .

25. If one of the zeroes of the quadratic polynomial $(k - 1)x^2 + kx + 1$ is -3 , then find the value of k .

26. If the sum of the zeroes of the quadratic polynomial $f(t) = kt^2 + 2t + 3k$ is equal to their product, find the value of k .

27. If α and β are the zeroes of the quadratic polynomial $2x^2 - 8x + 5$, find the value of $(\alpha + 1/\beta) \times (\beta + 1/\alpha)$.

28. If zeroes of $p(x) = 2x^2 - 7x + k$ are reciprocal of each other, then find the value of k .

29. If the zeroes of the quadratic polynomial $x^2 + (a + 1)x + b$ are 2 and -3 then find a and b .

30. Find the value of m if polynomial $p(x) = 4x^2 - 6x - m$ is exactly divisible by $x - 3$.

31. Find a quadratic polynomial whose zeroes are -9 and $-1/9$.

32. If one zero of the quadratic polynomial $2x^2 + px + 4$ is 2, find the other zero. Also, find the value of p .

33. Find a quadratic polynomial whose one zero is 5 and product of zeroes is 30.

34. Find a quadratic polynomial whose zeroes are $5 + \sqrt{2}$ and $5 - \sqrt{2}$.

35. If the product of the zeroes of the polynomial $ax^2 - 6x - 6$ is 4, then find the value of a . Also find the sum of zeroes of the polynomial.

36. Find the zeroes of the quadratic polynomial $6x^2 - 3 - 7x$ and verify the relationship between the zeroes and the coefficients of the polynomial.

37. Find the zeroes of the polynomial $x^2 + (1/6)x - 2$, and verify the relation between the coefficients and zeroes of the polynomial.

38. If the sum of the zeroes of the polynomial $p(x) = (k^2 - 14)x^2 - 2x - 12$ is 1, then find the value of k .

39. A teacher after teaching the chapter polynomial in class 10th, wrote the zeroes of a polynomial as 3 and -5 respectively on the blackboard. Find the polynomial.

40. Quadratic Polynomial $2x^2 - 3x + 1$ has zeroes as α and β . Form a polynomial whose zeroes are 3α and 3β .

41. Zeroes of the quadratic polynomial $x^2 - 3x + 2$ are α and β . Construct a polynomial whose zeroes are $2\alpha + 1$ and $2\beta + 1$.

MATHS PROJECT WORK

Do any one project out of 9 following topics (file-environmental friendly)

1. π - WORLD'S MOST MYSTERIOUS NUMBER
2. GOLDEN RECTANGLE AND GOLDEN RATIO
3. Development of Formula for the area of a cyclic quadrilateral.
4. Chronology of Indian Mathematicians with their contributions.
5. Pythagoras Theorem - Proofs other than given in the present textbook.
6. Generation of Pythagorean triplets.
7. Knowledge and classification of solid figures with respect to surface Areas and volumes.
8. Application of Geometry in day-to-day life.
9. Application of Algebra identities in day-to-day life.

PM SHRI KV BSF, RAISINGHNAGAR , 2026-2027

ENGLISH SUMMER VACATION HOLIDAY HOMEWORK

CLASS – X

1.Create a mind map for the following:

(i) Theme and Characters of 1.A Letter to God 2. A dust Of Snow 3. Fire and Ice 4.Triumph of Surgery 5. The Thief's Story

2.Creative Writing Worksheet

Task:

Choose any one creative task:

☐ Reimagine the ending of the story "'A Letter to God."

☐ "A Triumph Of Surgery"

3. Analytical Paragraph Writing 3 (i. based on a data table ii. A pie chart iii a bar graph)

4. Grammar Worksheet

Each of the following sentences has an error in tense.

Rewrite the sentence correctly.

1. He go to school every day.
2. She is plays the piano.

3. They was completed the project.
4. I am study English grammar now.
5. He don't like vegetables.
6. She gone to the market yesterday.
7. We was playing football last evening.
8. They has finished the homework already.
9. I eat lunch at 2 p.m. yesterday.
10. The baby cry loudly when I entered the room.
11. By the time we arrived, they leaves the party.
12. I am knowing the answer.
13. She have lived here for five years.
14. The sun rises from the west.
15. He is reading the novel every night before sleeping.

5.Chart Work

□ Create a biographical chart on any author or poet from your syllabus (Robert Frost, Anne Frank, etc.)

6 . Unseen Discursive Passage Worksheet with MCQs

Instructions:

1. Read the passage carefully.
2. Answer the questions that follow based on the passage.
3. Each question is followed by four options; choose the correct answer.

The Role of Technology in Education

Technology has rapidly transformed the education sector in the last few decades. With the advent of digital tools, online learning platforms, and access to vast amounts of information, students and teachers now have

more resources than ever before. In classrooms, interactive whiteboards, tablets, and online resources have

made learning more engaging and accessible. Educational apps and software have also provided students with new ways to learn, allowing for personalized learning experiences.

Despite its advantages, the use of technology in education is not without challenges. One significant concern

is the digital divide – not all students have access to the same technological resources. This inequality can

create disparities in learning opportunities, especially in rural areas or low-income communities. Another issue is the potential for distraction. With constant access to social media and entertainment, students can easily lose focus during lessons.

To fully benefit from technology in education, it is essential for schools to ensure equitable access to digital tools and provide proper guidance on using them responsibly. Teachers should also receive training to incorporate technology into their teaching methods effectively. By addressing these challenges, technology can truly enhance the learning experience for students across the globe.

Questions:

1. What is the main topic discussed in the passage?

- a) Traditional education methods
- b) Technology in education
- c) Social media in education
- d) Online gaming

2. How has technology impacted classrooms?

- a) It has made classrooms less engaging
- b) It has made learning more engaging and accessible
- c) It has made learning more difficult
- d) It has decreased students' interest in learning

3. What are some examples of technology used in classrooms?

- a) Blackboard
- b) Tablets and interactive whiteboards
- c) Paper and pencil
- d) Chalk and eraser

4. What is the "digital divide" mentioned in the passage?

- a) The gap between online and offline learning
- b) The inequality in access to technology
- c) The difference in social media usage
- d) The division between different educational systems

5. What problem can arise from the digital divide?

- a) More students getting distracted
- b) Unequal learning opportunities
- c) Increased teacher training

o d) Less use of educational tools

6. How can students misuse technology in the classroom?

o a) By using it for learning

o b) By focusing on entertainment and social media

o c) By using educational apps

o d) By staying focused on the lesson

7. What does the passage suggest schools should do to overcome the digital divide?

o a) Ignore the issue

o b) Provide equitable access to technology

o c) Restrict students' use of technology

o d) Focus on traditional methods of teaching

8. What should teachers be trained in?

o a) Social media usage

o b) Online gaming techniques

o c) Effectively incorporating technology into their teaching

o d) Ignoring technology in the classroom

9. What is the benefit of technology in education according to the passage?

o a) It distracts students

o b) It makes learning more engaging and accessible

o c) It makes teaching less effective

o d) It creates more competition among students

10. What is the overall suggestion of the passage?

o a) Technology is not useful in education

o b) Technology should be avoided in classrooms

o c) Proper access and guidance can help technology enhance education

o d) Teachers should stop using digital tools

Passage 2:

Climate Change and Its Global Impact

Climate change is one of the most pressing issues faced by humanity today. The rising global temperatures, caused primarily by human activities such as deforestation, burning of fossil fuels, and industrial processes,

are causing shifts in weather patterns and threatening the planet's ecosystems. The effects of climate change

can be seen in the form of more frequent and intense storms, floods, droughts, and rising sea levels. One of the most significant impacts of climate change is on biodiversity. Many species are struggling to adapt to changing environmental conditions, leading to extinction for some. The polar regions are particularly vulnerable, with melting ice threatening the survival of species such as polar bears and penguins. Additionally, climate change has economic consequences, particularly for agriculture and industries that depend on natural resources.

To mitigate climate change, global efforts are required. Countries must work together to reduce emissions, transition to renewable energy, and adopt sustainable practices. Individuals can also make a difference by reducing waste, conserving water, and supporting eco-friendly policies. Only through collective action can we hope to combat the dangers of climate change and protect our planet for future generations.

Questions:

1. What is the main topic of the passage?
 - a) The effects of climate change
 - b) The causes of global warming
 - c) Climate change and its global impact
 - d) Industrial pollution
2. What human activities contribute to climate change?
 - a) Recycling
 - b) Deforestation and burning fossil fuels
 - c) Planting trees
 - d) Using solar energy
3. How are weather patterns affected by climate change?
 - a) They become more stable
 - b) They become more predictable
 - c) They become more extreme
 - d) They remain the same
4. Which areas are particularly vulnerable to climate change?
 - a) Urban areas
 - b) Polar regions
 - c) Tropical forests
 - d) Deserts
5. Which species are at risk due to climate change?

o a) Cheetahs and tigers

o b) Polar bears and penguins

o c) Lions and elephants

o d) Dolphins and whales

6. How does climate change affect agriculture?

o a) It makes agriculture more profitable

o b) It has no effect on agriculture

o c) It causes crop failures and threatens industries

o d) It improves farming conditions

7. What is suggested as a solution to climate change?

o a) Ignoring the problem

o b) Reducing emissions and transitioning to renewable energy

o c) Cutting down more trees

o d) Increasing industrial activity

8. What role can individuals play in combating climate change?

o a) Ignoring the issue

o b) Conserving water and supporting eco-friendly policies

o c) Polluting more to increase awareness

o d) Supporting industrial growth

9. What is the goal of collective action against climate change?

o a) To increase global warming

o b) To reduce emissions and protect the planet

o c) To ignore environmental issues

o d) To make industrial processes easier

10. What is the long-term goal of addressing climate change, according to the passage?

o a) To increase pollution

o b) To protect the planet for future generations

o c) To improve industrial efficiency

o d) To ignore future consequences

7. Project Work

write a Book Review / Story Review: with the writer's photo

Book Review Questions:

1. Title and Author:

- o What is the title of the book, and who is the author?
- o What type of book is it (fiction, non-fiction, biography, etc.)?

2. Plot Summary:

- o What is the main plot or theme of the book?
- o Briefly describe the central conflict or issue presented in the book. USE PICTURES

3. Characters:

- o Who are the main characters, and what are their roles in the story?
- o Describe any character that stood out to you and why.
- o Are the characters well-developed and relatable?

4. Setting:

- o Where and when does the story take place?
- o How does the setting contribute to the overall mood or theme of the book?

5. Writing Style:

- o How would you describe the author's writing style (e.g., descriptive, concise, complex)?
- o Was the language of the book easy to understand or challenging?

6. Themes and Messages:

- o What are the main themes of the book (e.g., love, friendship, bravery, loss, etc.)?
- o Did the book convey any important moral lessons or messages?

7. Pacing and Structure:

- o Was the pacing of the book fast or slow?
- o Did the structure of the book (chapters, sections, etc.) enhance the reading experience?

8. Emotional Impact:

- o How did the book make you feel? Were you happy, sad, excited, etc.?
- o Did any particular scene or part of the book evoke strong emotions?

9. Strengths and Weaknesses:

- o What did you like the most about the book?
- o Were there any weaknesses or areas where the book could have been improved?

10. Recommendation:

- o Would you recommend this book to others? Why or why not?
- o Who do you think would enjoy reading this book?

11. Final Rating:

o How would you rate this book on a scale of 1 to 5?

o Why did you give it that rating?

CLASS-9

PM SHRI KENDRIYA VIDYALAYA (BSF) RAISINGHNAGAR Class 9 Science – Holiday Homework

Chapter: Motion Part A: Conceptual Understanding

1. Define the following terms with examples: a) Distance b) Displacement c) Uniform motion d) Non-uniform motion e) Acceleration
2. Differentiate between: a) Speed and Velocity b) Distance and Displacement (Use tabular form and draw diagrams wherever needed) Part B: Numerical Practice
3. A car moves with a speed of 40 km/h for 2 hours and then with 60 km/h for 1 hour. Calculate the total distance and average speed.
4. An object starts from rest and accelerates uniformly at 2 m/s^2 . Find the distance travelled in 5 seconds. 5. A train is moving at a speed of 90 km/h. Brakes are applied and it comes to rest in 10 seconds. Find the acceleration and distance covered. Part D: HOTS (Higher Order Thinking Skills)
8. Can displacement be zero even when distance is not? Explain with an example.
9. A cyclist moves in a circular path of radius 10 m. What is the displacement after one complete round? Why? b) Velocity-time graph for uniformly accelerated motion
10. Derive the three equations of motion using: a) Algebraic method
11. The SI unit of velocity is: a) km/h b) m/s c) m d) m^2/s
12. Which of the following is a scalar quantity? a) Velocity b) Displacement c) Speed d) Acceleration
13. A body is said to be in uniform motion if: a) It moves with constant speed in a straight line b) It moves in a circle c) It covers unequal distances in equal intervals d) Its speed decreases with time
14. What does the area under a velocity-time graph represent? a) Speed b) Acceleration c) Distance d) Displacement Part G: Application-Based Questions
15. A scooter travels first 10 km in 30 minutes and then 20 km in 45 minutes. Calculate its average speed.

कक्षा नवमी संस्कृत

ग्रीष्म अवकाश गृह कार्य

व्याकरण-भागे

* अजन्त शब्दरूपाणि लिखत।

पुल्लिङ्गशब्दाः- अकारान्तः - बालक, इकारान्तः - कवि, उकारान्तः - साधु,

ऋकारान्तः - पितृ, हलन्तः- भवत्

स्त्रीलिङ्गशब्दाः- आकारान्तः - लता, ईकारान्तः - नदी,

नपुंसकलिङ्गशब्दाः- अकारान्तः - गृहम्

सर्वनामशब्दाः - अस्मद्, युष्मद्, * किम्, (त्रिषु लिङ्गेषु)।

* धातुरूपाणि लिखत।

परस्मैपदिनः पञ्चसु लकारेषु - लट् - लृट् - लङ् - लोट् - विधिलिङ्

1. भू, 2. नम्, 3. गम्,

आत्मनेपदिनः (लट् - लृट्) लकारयोः- 1. सेव्,

* संस्कृतभाषायां शब्देषु सङ्ख्या लेखनम् (1-100)।

पुस्तक-भागे-

शारदा पुस्तक के अन्तर्गत सभी पाठों से प्रश्न-निर्माण वाले प्रश्न लिखें।

संस्कृत में छात्र-प्रतिज्ञा याद करके लिखें।(यह आपसे सुनी जायेगी)

CLASS-8

PM Shri Kendriya Vidyalaya BSF RAISINGH NAGAR

Holiday Homework-2026-27 (Summer Vacation)

Class -VIII Subject -English

1. Write an essay on

a)'How I spent my summer vacation

b)My resolution to inculcate good habits

**2. Write two paragraph daily in your notebook as
handwriting practice**

Do loud reading for two minutes

and five minutes silent reading daily..

3. Write any two Formal and two informal letters.

**4. Prepare an MDP on any given topic (Plantation,
Pollution and Sustainable Development).**

**5. Read the chapters of your English Textbook and
mark new words writing their meaning along with
antonym and synonym.**

Ajay Singh Rathore

TGT ENGLISH

कक्षा अष्टमी संस्कृत

ग्रीष्म-अवकाश - गृह कार्य

1. 1 से 100 तक संस्कृत में गिनती लिखें।
2. संस्कृत में एक लघु कथा लिखें ।
3. अपने मनपसंद 05 श्लोक लिखें व उनका भावार्थ लिखें।
4. गुरु, नदी और कवि के शब्दरूप लिखें और याद करें।
5. वद धातु के पांचों लकारों में रूप लिखें और याद करें।
6. प्रतिदिन संस्कृत पुस्तक से एक पेज शुद्ध रूप से पढ़ने का प्रयास करें।

Holidays Homework

Class VIII (Science)

1. Read chapter 1,2,3.
2. Prepare a science model on topic of your choice from your syllabus.

CLASS-7

छुट्टी का गृहकार्य हिंदी

1 नित्य 2 पृष्ठ पठन अभ्यास रीडिंग

2 विलोम शब्द 50

3 पर्यायवाची 20

4 सुलेख 15 पृष्ठ

5 हर रविवार को 5 समाचारों का संकलन

6 छुट्टी के अंत में अपनी छुट्टी के अनुभवों की डायरी

विशेष अपील

छुट्टी में बच्चों को व्यायाम करने, घर के कामों में जैसे सफाई, डस्टिंग, पौधों में पानी देना, जीव जंतुओं के लिए दाने पानी की व्यवस्था करना, पूजा करना, सूर्य को जल देना (अपनी मान्यता अनुसार) जैसे कामों में संलग्न करें। मोबाइल का प्रयोग आधे घंटे से ज्यादा ना हो। टीवी का समय कम रखें।

हेल्थी फूड, फास्ट फूड कम से कम, कोल्ड ड्रिंक कम से कम इत्यादि।

आप सभी को छुट्टी की हार्दिक शुभकामनाएं।

PM Shri Kendriya Vidyalaya BSF RAISINGH NAGAR

Holiday Homework-2026-27 (Summer Vacation)

Class -VII Subject -English

1. Write an essay on

a)'How I spent my summer vacation

b)My resolution to inculcate good habits

2. Write two paragraph daily in your notebook as handwriting practice

Do loud reading for two minutes

and five minutes silent reading daily..

3. Write any two Formal and two informal letters.

4. Prepare an MDP on any given topic (Plantation, Pollution and Nature).

5. Read the chapters of your English Textbook and mark new words writing their meaning along with antonym and synonym.

कक्षा सप्तमी संस्कृत

ग्रीष्म-अवकाश - गृह कार्य

1. 1 से 50 तक संस्कृत में गिनती लिखें।

2. संस्कृत में एक लघु कथा लिखें।

3. अपने मनपसंद 05 श्लोक लिखें व उनका भावार्थ लिखें।

4. बालक, बालिका और फल के शब्दरूप लिखें और याद करें।

5. पठ धातु के पांचों लकारों में रूप लिखें और याद करें।

6. प्रतिदिन संस्कृत पुस्तक से एक पेज शुद्ध रूप से पढ़ने का प्रयास करें।

PM Shri Kendriya Vidyalaya BSF RAISINGH NAGAR

Holiday Homework-2026-27 (Summer Vacation)

Class -VII Subject -MATHEMATICS

1. Prepare a project on 'Brahmagupta and his theory about mathematics'.
2. Project : Maths in our surroundings
 - i) Identify 5 objects showing angles, triangles, lines.
 - ii) Draw or paste pictures.
 - iii) Label mathematics terms.
3. Solve: i) $-15+27=$
ii) $-36\div 6=$
iii) $(-8) \times 7=$
4. Prepare MDP on topic (land, water, nature)
5. Write 5 points about how mathematics is making your life easier.
6. Prepare the drawing A4 sheet to show addition or subtraction of integers in a decorative way.

Holiday Homework for Summer Vacation 2026 Sub – Science (curiosity) Class - VII

1. MCQ a) A car covers 150 meters in 10 seconds. Calculate its speed.
_____ b) A runner completes 400 meters in 50 seconds.
Find the average speed. _____.
1. Which of the following is a source of electricity in a simple electric circuit? a) Switch b) Electric cell c) Bulb d) Wire
2. The thin wire inside an electric bulb that glows when current passes through it is called: a) Coil b) Filament c) Terminal d) Fuse
3. Which material is a good conductor of electricity? a) Plastic b) Rubber c) Copper d) Wood
4. What is the function of a switch in an electric circuit? a) To produce electricity b) To store electricity c) To open or close the circuit d) To increase current
5. When the electric circuit is incomplete, the bulb will: a) Glow brightly b) Glow dimly c) Not glow d) Explode
6. The path through which electric current flows is called: a) Electric source b) Electric circuit c) Electric charge d) Electric device
7. Which of the following materials is an insulator? a) Aluminium b) Iron c) Plastic d) Copper

8. The longer line in the symbol of an electric cell represents the: a) Negative terminal b) Positive terminal c) Neutral terminal d) Metal plate
9. A device used to test whether a material conducts electricity or not is called a: a) Generator b) Tester c) Battery d) Motor
10. Which of the following will allow electricity to pass through it easily? a) Glass b) Rubber c) Metal d) Wood
11. The natural satellite of Earth is: a) Mars b) Venus c) Moon d) Mercury
12. The solar system consists of: a) Sun and planets b) Only planets c) Only stars d) Only satellites
13. A solar eclipse occurs when: a) Moon comes between Sun and Earth b) Earth comes between Sun and Moon c) Sun comes between Earth and Moon d) None
14. A lunar eclipse occurs when: a) Earth between Sun and Moon b) Moon between Sun and Earth c) Sun between Earth and Moon d) None
15. The largest planet in the solar system is: a) Earth b) Mars c) Jupiter d) Venus
16. The planet known as the Red Planet is: a) Venus b) Mars c) Mercury d) Saturn
- 17 How can natural indicators be prepared? Explain by giving an example.
- 18 Three liquids are given to you. One is vinegar, another is a baking soda solution, and the third is a sugar solution. Can you identify them only using turmeric paper? Explain.
- 19 The extract of red rose turns the liquid X to green. What will the nature of liquid X be? What will happen when excess of amla juice is added to liquid X?
- 20 Manya is blindfolded. She is given two unknown solutions to test and determine whether they are acidic or basic. Which indicator should Manya use to test the solutions and why?

CLASS-6

छुट्टी का गृहकार्य हिंदी

1 नित्य 2 पृष्ठ पठन अभ्यास रीडिंग

2 विलोम शब्द 50

3 पर्यायवाची 20

4 सुलेख 15 पृष्ठ

5 हर रविवार को 5 समाचारों का संकलन

6 छुट्टी के अंत में अपनी छुट्टी के अनुभवों की डायरी

विशेष अपील

छुट्टी में बच्चों को व्यायाम करने, घर के कामों में जैसे सफाई, डस्टिंग, पौधों में पानी देना, जीव जंतुओं के लिए दाने पानी की व्यवस्था करना, पूजा करना, सूर्य को जल देना (अपनी मान्यता अनुसार) जैसे कामों में संलग्न करें। मोबाइल का प्रयोग आधे घंटे से ज्यादा ना हो। टीवी का समय कम रखें।

हेल्थी फूड, फास्ट फूड कम से कम, कोल्ड ड्रिंक कम से कम इत्यादि।

आप सभी को छुट्टी की हार्दिक शुभकामनाएं।

PM Shri Kendriya Vidyalaya BSF RAISINGH NAGAR

Holiday Homework-2026-27 (Summer Vacation)

Class -VI Subject -English

1. Write an essay on

a)'How I spent my summer vacation

b)My Daily routine.

2. Write two paragraph daily in your notebook as handwriting practice

Do loud reading for two minutes

and five minutes silent reading daily..

3. Write any two Formal and two informal letters.

4. Prepare an MDP on any given topic (Plantation, Pollution and Water Conservation).

5. Read the chapters of your English Textbook and mark new words writing their meaning along with antonym and synonym.

Ajay Singh Rathore

TGT English

कक्षा छठी संस्कृत

ग्रीष्म-अवकाश - गृह कार्य

1. चित्रसहित वर्ण व उच्चारण स्थान लिखें।

2. चित्र सहित शरीर के अंगों के नाम संस्कृत में लिखें।

3. 1 से 50 तक संस्कृत में गिनती लिखें।

4. संस्कृत में एक लघु कथा लिखें।

5. कुछ फूलों के चित्र सहित संस्कृत में नाम लिखें।

6. अपने मनपसंद 05 श्लोक लिखें व उनका भावार्थ लिखें। PM Shri Kendriya Vidyalaya BSF RAISINGH NAGAR

Holiday Homework-2026-27 (Summer Vacation)

Class -VI Subject -MATHEMATICS

1. Write the pattern for all sequences and write the next 3 numbers for each sequences.

2. Write 5 points about how mathematics is making your life easier.

3. Are 1, 8, 27, 64..... called cubes?

4. What is the role of mathematics in shopping. Create a bill using addition, subtraction and multiplication.

5. List out the household items in geometric shapes and paste it pictures (10 pictures).

CLASS-5

Practice today,
Succeed tomorrow!



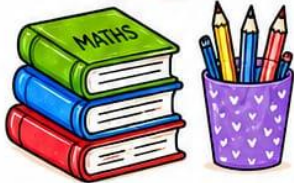
CLASS 5

MATHEMATICS

SUMMER HOLIDAY HOMEWORK

MAY - JUNE 2026

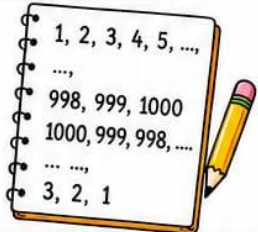
Maths is Fun, Practice Makes Us Perfect!



SECTION A - NUMBER SYSTEM

1. Number Practice

- Write numbers:
 - ☆ 1 to 1000
 - ☆ 1000 to 1
- Practice regularly for accuracy and neatness.



2. Place Value & Expanded Form

- Write place value and expanded form.

Example:

$$45,678 = 40,000 + 5,000 + 600 + 70 + 8$$

TTh	Th	H	T	O
4	5	6	7	8

3. Number Names

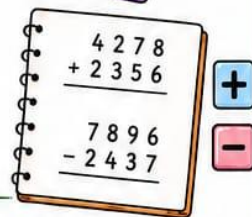
- Write number names: 1-10,000

123

SECTION B - OPERATIONS

4. Addition & Subtraction

- Solve daily:
 - ☆ 10 addition sums
 - ☆ 10 subtraction sums



5. Multiplication

Practice:

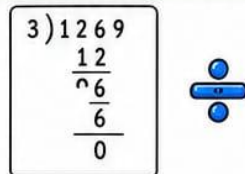
- ☆ 2-digit × 2-digit
- ☆ 3-digit × 1-digit

$$23 \times 47$$

$$345 \times 6$$

6. Division

- Solve division problems.
 - ☆ Include word-based questions.



SECTION C - FRACTIONS & DECIMALS

7. Fractions

- Write and solve:
 - ☆ Like and unlike fractions
 - ☆ Simple addition of fractions

$$\frac{1}{4} + \frac{1}{4} = \frac{2}{4} = \frac{1}{2}$$

8. Decimals

- Write decimals and convert:
 - ☆ Fraction → Decimal

$$\frac{3}{4} = 0.75$$

$$\frac{1}{2} = 0.5$$

SECTION D - MEASUREMENT

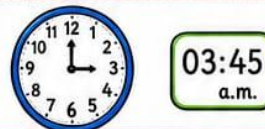
9. Length, Weight & Capacity

- Solve problems based on:
 - ☆ cm, m, km
 - ☆ g, kg
 - ☆ ml, l



10. Time

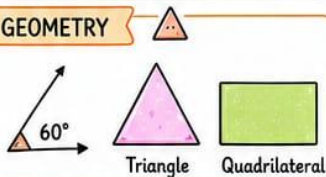
- Solve:
 - ☆ Time-based problems
 - ☆ Word problems



SECTION E - GEOMETRY

11. Shapes

- Draw and label:
 - ☆ Angles
 - ☆ Triangles
 - ☆ Quadrilaterals



12. Symmetry

- Draw figures showing line symmetry.



SECTION F - REAL LIFE MATHS

13. Money Activity

- Create a bill of 5 items.
 - ☆ Add total and find balance.



14. My Budget Plan

- Plan a small budget (₹100 - ₹200).



Maths is Everywhere!

SUBMISSION GUIDELINES

- ☆ Maintain a neat and organized notebook/file.
- ☆ Use colours, headings, charts and creativity.
- ☆ Practice regularly.
- ☆ Submit all homework on time.
- ☆ Neat work will be appreciated.

KEEP EXPLORING!

Keep Learning,
Keep Practicing and
Keep Growing!

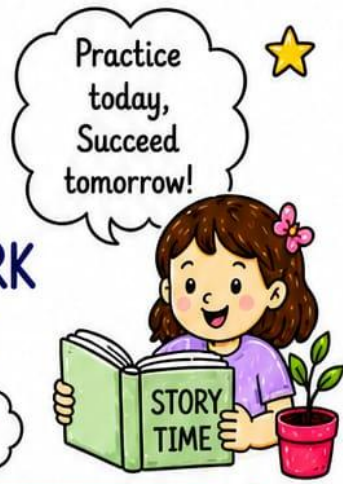


CLASS 5 ENGLISH

SUMMER HOLIDAY HOMEWORK

♥ MAY - JUNE 2026 ♥

Read, Write, Learn and Grow! ♥



SECTION A - READING SKILLS

1. Daily Reading

Read 1-2 pages daily from a storybook.

Focus on:

- ★ Pronunciation
- ★ Fluency
- ★ Understanding



2. Reading Response

After reading, write:

- ★ Main idea
- ★ 5 new words with meanings
- ★ 3 sentences about the story



SECTION B - WRITING SKILLS

3. Sentence Writing

Write 10-12 sentences on:

- ★ My School
- ★ My Favourite Teacher



4. Paragraph Writing

Write 12-15 lines on any one:

- ★ My Best Friend
- ★ My Summer Holidays
- ★ My Favourite Hobby

Add a drawing.



5. Letter Writing

Write a letter to your friend about your holidays.



SECTION C - GRAMMAR PRACTICE

6. Parts of Speech

Write:

- ★ 20 Nouns
- ★ 20 Verbs
- ★ 20 Adjectives



7. Tenses

Write 5 sentences each in:

- ★ Present tense
- ★ Past tense
- ★ Future tense



8. Opposites & Synonyms

Write:

- ★ 20 Opposites
- ★ 20 Synonyms



SECTION D - CREATIVE ACTIVITIES

9. Story Writing

Write a story (12-15 lines).

Include:

- ★ Characters
- ★ Setting
- ★ Problem and solution



10. Poster Making

Make a colourful poster on any one topic:

- ★ Save Environment
- ★ Save Water



SUBMISSION GUIDELINES

- ★ Maintain a neat and organized notebook/file.
- ★ Use colours, headings and drawings.
- ★ Practice regularly.
- ★ Submit after holidays.



A little effort today brings a big success tomorrow! ♥



1. Make poster

*** Save water**

*** Save Environment**

2. Make a scrapbook

*** Paste picture and write name**

(Plants, animals, transport, water resources

3. Write safety rules for road and school

4. Write 5 lines with picture

(* Land transport, water transport, Air transport)

5. Observe and write

*** 5 Natural things**

*** 5 Man - made things**

कक्षा 5 हिंदी

ग्रीष्मकालीन अवकाश गृहकार्य

मई जून 2026

कार्य 1 : दैनिक पठन

रोज़ हिन्दी पुस्तक से 1-2 पृष्ठ पढ़ें (कहानी/पाठ)

ध्यान दें: .

शुद्ध उच्चारण

सही गति

अर्थ समझना

कार्य 2 : पठन के बाद समझ

पढ़े गए पाठ पर लिखें:

-पाठ का मुख्य विचार

-5 नए शब्द व उनके अर्थ

-3 वाक्य अपने विचारों के

कार्य 3 : वाक्य लेखन

कोई 10 शब्द चुनकर 10 वाक्य लिखें

जैसे 1. मेरा विद्यालय: मेरा विद्यालय बहुत विशाल है।

कार्य 4 : अनुच्छेद लेखन

किसी एक विषय पर 12-15 पंक्तियाँ लिखें:

मेरा प्रिय खेल

मेरी गर्मी की छुट्टियाँ

मेरा लक्ष्य

चित्र भी बनाएं

कार्य 5 : पत्र लेखन

अपने मित्र को छुट्टियों के अनुभव के बारे में पत्र लिखें।

कार्य 6 : शब्द भेद

लिखें:

20 संज्ञा शब्द

20 क्रिया शब्द

20 विशेषण शब्द

कार्य 7 : विलोम / पर्यायवाची

लिखें:

20 विलोम शब्द

20 पर्यायवाची शब्द

कार्य 8 : कहानी लेखन

12-15 पंक्तियों की कोई एक कहानी लिखें।

शामिल करें:

पात्र

स्थान

समस्या और समाधान

कार्य 9 : कविता पाठ

पुस्तक से कोई 2 हिंदी कविताएं याद करें।

भाव और हाव-भाव के साथ सुनाएं।

कार्य 10: दैनिक लेखन

रोज़ लिखें:

आज का मौसम

आज कुछ नया सीखा

एक अच्छा काम

#प्रस्तुति निर्देश

*साफ-सुथरी और सुव्यवस्थित कार्य अपनी हिंदी की कॉपी में ही करें। ।

*रंग, चित्र और चार्ट का प्रयोग करें।

*नियमित अभ्यास करें।

*छुट्टियों के बाद कार्य जमा करें।

CLASS-4

CLASS 4 हिन्दी

1. किसी भी पुस्तक से रोजाना हिंदी का एक पेज पढ़ना ।

2. अनुच्छेद लेखन (10 वाक्य में)

* मेरा सबसे अच्छा मित्र

* मेरा पसंदीदा खेल

* मेरा विद्यालय

3. आठ से दस पंक्तियों की कोई भी पांच कहानी लिखें ।

4. कोई दो कविता लिखें और उचित लय, ताल , हाव भाव के साथ याद करें ।

5. पोस्टर बनाओ

* जल बचाओ

* स्वच्छ भारत

KENDRIYA VIDYALAYA

Holiday Home Work (Summer Vacation)

Class: IV | Subject: English

A. READING & VOCABULARY

- **Daily Reading:** Read 1 page daily from an English storybook to improve fluency.

B. WRITING SKILLS

1. Sentence Writing

Write 10-12 sentences in your notebook on the following topics:

- My School
- My Favourite Teacher

2. Letter Writing

Write a letter to your friend telling them about how you are spending your summer holidays.

C. GRAMMAR PRACTICE

1. Parts of Speech

Identify and write down the following in your grammar notebook:

- 15 Nouns
- 15 Verbs
- 15 Adjectives

2. Tenses & Vocabulary

- **Tenses:** Write 5 sentences using different tenses.
- **Opposites:** List 15 pairs of opposite words.
- **Synonyms:** List 15 pairs of synonyms (words with similar meanings).

D. LITERATURE & ART

Chapter 2: The Tinkling Bells

- Carefully write Chapter 2 (from Page No. 9) in your best handwriting.
- **Drawing:** Draw a colorful picture related to the story "The Tinkling Bells".

☀ Useful Daily Habits for Students ☀

- **Early Bird:** Wake up early and do light exercise or Yoga for 10 minutes.
- **Watering Plants:** Take care of nature by watering the plants at home daily.
- **Magic Words:** Use polite words like 'Please', 'Thank you', and 'Sorry' in your conversation.
- **Help Parents:** Help your mother/father in small household tasks like setting the table.
- **Bird Care:** Keep a bowl of water on your terrace/balcony for birds during the heat.
- **Limited Screen Time:** Spend more time playing outdoors or reading than watching TV or mobile.

"Education is the most powerful weapon which you can use to change the world."



CLASS 4

(THE WORLD AROUND US)

SUMMER HOLIDAY HOMEWORK

MAY - JUNE 2026

Observe,
Learn,
Understand
and Care!



SECTION A - MY ENVIRONMENT

1. My Surroundings

- Observe your surroundings and write:
 - ☆ 5 things seen at home
 - ☆ 5 things seen outside



2. Cleanliness Check

- Make a list:
 - ☆ Clean places
 - ☆ Dirty places

Write how to keep them clean.



SECTION B - PLANTS & ANIMALS

3. Plant Observation

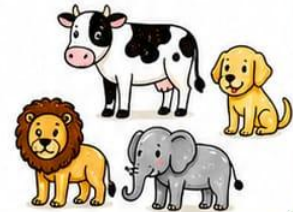
- Observe a plant for 5 days. Write:
 - ☆ Changes noticed
 - ☆ Watering details



4. Animals Around Me

- List:
 - ☆ 5 domestic animals
 - ☆ 5 wild animals

Write 1-2 lines about each.



SECTION C - WATER & FOOD

5. Save Water Activity

- Write 5 ways to save water.
- Draw a related picture.



6. My Food Chart

- Make a chart of:
 - ☆ Breakfast
 - ☆ Lunch
 - ☆ Dinner
- Include healthy food items.

MEAL	HEALTHY FOOD ITEMS
Breakfast	
Lunch	
Dinner	

SECTION D - TRAVEL & COMMUNITY

7. Means of Transport

- Draw and name:
 - ☆ Land transport
 - ☆ Water transport
 - ☆ Air transport



8. My Neighbourhood

- Write:
 - ☆ Places near your home
 - ☆ Their importance



SECTION E - THINKING & AWARENESS

9. Good Habits

- Write 5 good habits:
 - ☆ At home
 - ☆ In school



10. Safety Rules

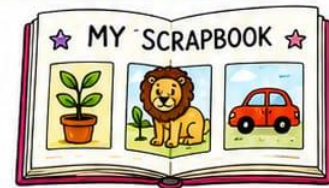
- Write safety rules for:
 - ☆ Road
 - ☆ Home



SECTION F - ACTIVITY / PROJECT

11. Scrapbook

- Make a scrapbook with:
 - ☆ Plants
 - ☆ Animals
 - ☆ Transport
- Use pictures and drawings.



12. Daily Observation Diary

- Write daily:
 - ☆ Weather
 - ☆ One new thing learned



SUBMISSION GUIDELINES

- Maintain a neat and clean file.
- Use colours, drawings and charts.
- Observe and write regularly.
- Submit after holidays.

Let's explore, learn and care for the world around us!
Stay Curious, Stay Happy!



CLASS 4

ENGLISH

SUMMER HOLIDAY HOMEWORK

MAY - JUNE 2026

Read,
Learn,
Write and
Grow!

SECTION A - READING SKILLS

1. Daily Reading

- Read 1 page daily from a storybook.

Focus on:

- ☆ Pronunciation
- ☆ Fluency



2. Reading Response

After reading, write:

- ☆ Main idea
- ☆ 5 new words with meanings
- ☆ 2 sentences about the story



SECTION B - WRITING SKILLS

3. Sentence Writing

- Write 10-12 sentences on:

- ☆ My School
- ☆ My Favourite Teacher



4. Paragraph Writing

- Write 10-12 lines on any one:

- ☆ My Best Friend
- ☆ My Favourite Hobby
- ☆ My Summer Vacation



5. Letter Writing

- Write a letter to your friend about your holidays.



SECTION C - GRAMMAR PRACTICE

6. Parts of Speech

Write:

- ☆ 15 Nouns
- ☆ 15 Verbs
- ☆ 15 Adjectives



7. Tenses

- Write 5 sentences each in:
 - ☆ Present tense
 - ☆ Past tense



8. Opposites & Synonyms

Write:

- ☆ 15 Opposites
- ☆ 15 Synonyms



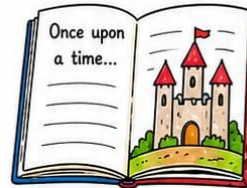
SECTION D - CREATIVE ACTIVITIES

9. Story Writing

- Write a short story (8-10 lines).

Include:

- ☆ Characters
- ☆ Setting
- ☆ Ending



10. Poster Making

- Make a poster on:

- ☆ Save Water
- ☆ Clean India



SUBMISSION GUIDELINES



Maintain a neat notebook or file.



Use colours, headings and drawings.



Practice regularly.



Submit after the holidays.

English is Fun!
Keep Reading, Keep Learning
and Shine Bright!



CLASS-3

Summer Holiday Homework

Class 3 | Subject: Environmental Studies (EVS) - Our World Around Us

Kendriya Vidyalaya Sangathan

Theme 1: Nature & Me (Plant Fairy)

- **My Green Friend:**

Plant a seed (like moong dal, mustard, or a small sapling) in a pot or a discarded plastic bottle. Water it daily, keep it in sunlight, and observe it grow.

Activity: Draw the growth of your plant every Sunday in a scrapfile.

- **Leaf Art:**

Collect 5 different fallen leaves from your neighborhood. Don't pluck them! Paste them in your notebook and write the name of the tree/plant they belong to.

Theme 2: Water is Life (Water O' Water)

- **Water Saver Hero:**

For one week, observe how much water is wasted in your house.

Task: Make a "Water Saving Poster" with 3 simple rules (e.g., closing the tap while brushing). Paste it near your washbasin.

- **Bird Bath:**

Keep a shallow bowl of fresh water on your balcony or terrace for birds. Refill it every morning and notice which birds come to drink.

Theme 3: Family and Relationships

- **Kitchen Helper:**

Help your parents in the kitchen (under supervision). Learn how to make a simple lemonade (Shikanji) or a fruit salad.

Writing Task: List the ingredients used and write 2 sentences about how you helped.

• **Grandparents' Stories:**

Spend 15 minutes every evening talking to your grandparents or elders. Ask them what games they played when they were in Class 3. Write down the name of one such old game.

Theme 4: Hygiene & Responsibility

• **My Clean Corner:**

Every morning, make your own bed and keep your toys/books in their proper places.

Observation: How do you feel when your room is tidy? Write one word (e.g., Happy, Peaceful).

• **Bird/Animal Care:**

If you see a stray animal, ask your parents to give it some food. Do not go near it alone.

Creative Project

Waste to Wealth: Create something useful from dry waste (like a pen stand from a tin can, or a wall hanging from old cardboard). Bring it to class after the holidays.

Note to Parents: Please encourage your child to do these activities independently. The goal is to make them observe the world around them and learn life skills.

Wishing you a joyful and soulful Summer Vacation!

CLASS 3 – MATHEMATICS

Summer Holiday Homework

May – June 2026

Work 1:- Number Practice

Write numbers:

1 to 200

200 to 1

Work:-2. Place Value

Write place values of any 20 three digits numbers.

Example:

345 = 3 Hundreds, 4 Tens, 5 Ones

Work:-3.

Write number names:

1 to 100

Work 4.

Solve:

20 addition sums

20 subtraction sums

Work 5.

Learn tables: 2 to 15 and write twice.

Work:-6.Draw and identify:

2D Shapes: Circle, Square, Triangle, rectangle

3D Shapes: Cube, Sphere, Cylinder, Cuboid, Cone .

Work:-7

Measure any 10 objects using a scale (length).

Example:

Table length = _ cm

Work:-8 Word Problems

Solve :-

a) A basket has 25 apples. 10 are eaten. How many are left?

b) There are 4 bags with 5 chocolates each. How many chocolates in all?

Work:-9

Create a shop at home.

Use fake money.

Practice:

Addition

Subtraction

Items: ₹15, ₹20, ₹10

Work :-10

Observe in your home and write:

Number of:-

1) doors

2) windows

3) chairs

4) family members

5) plants

#SUBMISSION GUIDELINES

*** Do neat and clean work in your Maths notebook.**

***Use colours, drawings and charts.**

***Practice regularly.**

Submit this work after the holidays.

CLASS-2

Class 2nd Maths

- 1. Write numbers 1 To 100 in forward and backward.**
- 2. Write number name 1 to 50 (like one two...)**
- 3. Solve 10 addition and 10 subtraction**
- 4. Write table 2 to 10 (5 times) and learn**
- 5. Draw any 10 patterns**

CLASS 2 ENGLISH

Summer Holiday Homework

May -June 2026

Work1:- Daily Reading

Read 5-6 lines daily from a storybook or your English textbook.

Try to read aloud.

Focus on:

Pronunciation

Fluency

Work:-2. Sentence Writing

After reading chose any 10 words and Write 10 sentences using these simple words.

Example:

1.Sun :-The sun is bright.

Work 3:-.Paragraph writing

Write 5-6 lines on any one and also draw pictures.

-My Favourite Toy

-My Best Friend

-My Favourite Fruit

Work:- 4 Opposites & Rhyming Words

Write:

10 Opposites (big -small)

10 Rhyming words (cat -bat)

Work :-5 Show and Tell

Pick any object:

Toy / Book / Fruit

Speak 4-5 lines about it.

Work:-5 Rhymes(poem) Practice

**Learn and recite any 2 English rhymes from your
English textbook**

Use actions.

Work :- 6 Learn and Write 20 new words and

Write meanings

Example

happy:- feeling joy

Work:-7 Good Habits Poster

Take a A-4 size paper and Make a poster on any one topic showing:

-Say Thank You

-Keep surroundings clean

-Help others

#SUBMISSION GUIDELINES#

***Do neat and clean work in your English notebook.**

***Use colours and pictures.**

***Practice daily.**

***Submit this work after holidays.**



खंड A - पठन कौशल

1. रोज पढ़ें

- रोज 5-6 पंक्तियों पढ़ें।
- कहानी की किताब का उपयोग करें।

ध्यान दें:

- ★ शुद्ध उच्चारण
- ★ सही गति



2. चित्र देखकर लिखें

- किसी चित्र को देखकर लिखें:
 - ★ क्या दिख रहा है
 - ★ क्या हो रहा है
- 3-4 सरल वाक्य लिखें।



खंड B - लेखन कौशल

3. वाक्य लेखन

- रोज 5 वाक्य लिखें।

उदाहरण:

- ★ सूरज चमक रहा है।
- ★ मुझे आम पसंद है।



4. मेरा प्रिय (अनुच्छेद)

- किसी एक विषय पर 5-6 पंक्तियों लिखें:
 - ★ मेरा प्रिय खिलौना
 - ★ मेरा सबसे अच्छा मित्र
 - ★ मेरा पसंदीदा फल
- चित्र भी बनाएं।



5. विलोम और तुकांत शब्द

- लिखें:
 - ★ 10 विलोम शब्द (बड़ा-छोटा)
 - ★ 10 तुकांत शब्द (कल-फल)



खंड C - रचनात्मक गतिविधियों

6. चित्र बनाओ और नाम लिखो

- चित्र बनाएं और नाम लिखें:



7. कहानी बनाओ

- 4-5 पंक्तियों की छोटी कहानी लिखें।
- शामिल करें:
 - ★ पात्र
 - ★ सरल वाक्य



खंड D - बोलने का अभ्यास

8. दिखाओ और बताओ

- कोई वस्तु चुनें:
 - ★ खिलौना / किताब / फल
- उसके बारे में 4-5 वाक्य बोलें।



9. कविता अभ्यास

- 2 हिंदी कविताएँ याद करें।
- हाव-भाव के साथ बोलें।



प्रस्तुति निर्देश

- साफ-सुथरी कॉपी बनाएं।
- रंग और चित्र का प्रयोग करें।
- रोज अभ्यास करें।
- छुटियों के बाद कमा करें।

आओ इस गर्मी को बनाएं
सीखने और मस्ती भरा समय!
खुश रहो, सीखते रहो!

CLASS-1

KENDRIYA VIDYALAYA

Joyful Learning: Summer Holiday Homework (2026)

Class: 1 | Subject: Mathematics

Dear Little Learners, let's play with numbers and shapes this summer! This homework is designed to help you see Math everywhere around you.

Topic 1: Numbers and Counting

Task 1: The Number Hunt

Count the following items in your house and write the numbers in your scrapbook:

- Total number of doors.
- Total number of fans.
- Total number of windows.
- Total number of family members.

Task 2: Seed Art

Use **Kidney beans (Rajma)** or **chickpeas (Chana)** to make numbers from 1 to 10 on a chart paper. Paste them neatly.

Topic 2: Shapes and Space

Task 3: Shape Detective

Draw and color objects from your kitchen that look like these shapes:

- **Circle:** (Example: Plate, Bangle)
- **Rectangle:** (Example: Tray, Biscuit)
- **Square:** (Example: Bread slice, Napkin)

Topic 3: Measurement

Task 4: Hand-Span Magic

Measure the length of your **Dining Table** and your **Bed** using your hand-span (bitta). Ask your father to do the same. Compare whose hand-span is bigger!

Topic 4: Mental Math & Fun

Task 5: Table of 2 and 5

Learn the tables of 2 and 5. Recite them while clapping or jumping to make it fun!

Note to Parents: Please guide your ward but let them do the activities themselves. Encourage them to use recycled materials for any craft work.