



## SUMMER VACATION ASSIGNMENT (2026-2027)

### Class-IX

### **Subject: English**

#### 1. REFLECTIVE WRITING (Do in notebook)

(Based on How I Taught My Grandmother)

 Write a paragraph (120–150 words):

 “A time when you learned something from an elder or taught something to them.”

**Include:**

What happened

What you learned

Why it was meaningful

#### 2. FORMAL WRITING PRACTICE (Do in notebook)

##### (a) Letter Writing

Write a letter to the Editor of a local newspaper highlighting the problem of excessive use of mobile phones by teenagers and suggesting ways to reduce screen addiction among students.

You are Ananya/Arjun, a student of Class IX living in Kolkata. Write the letter in about 120–150 words.

##### (b) Formal Invitation

Write a formal invitation (50 words) inviting the Principal as the Chief Guest for a school function.

#### 3. GRAMMAR IN APPLICATION (Do in notebook)

Write 5 sentences of your own.

**Ensure that:**

Each sentence uses correct tense

Use at least one determiner

Apply subject–verb agreement correctly

Apply one modal verbs correctly

 **Also:**

Change any 2 sentences into reported speech

## Subject: Bengali

Project 1: স্থানীয় ইতিহাস  
তোমার এলাকার একটি ঐতিহাসিক স্থান সম্পর্কে তথ্য সংগ্রহ করো  
ছবি, মানচিত্র, তথ্যসহ চার্ট বানাও।

**Project 2:** লোকসংস্কৃতি  
• তোমার এলাকার লোকগান/লোককথা সংগ্রহ করো  
• তার অর্থ ও গুরুত্ব ব্যাখ্যা করো।

ইন্টারভিউ কার্যক্রম  
পরিবারের কোনো বয়স্ক সদস্যের সাক্ষাৎকার নাও  
প্রশ্ন উদাহরণ:  
তাদের ছোটবেলার স্কুল জীবন কেমন ছিল?  
তখনকার ছুটি ও এখনকার ছুটির পার্থক্য কী?  
রিপোর্ট তৈরি করো

## Subject: Hindi

1. प्रेमचंद के जीवन परिचय लिखें।
2. निम्नलिखित विषयों पर निबंध लिखें-  
(क) नारी सशक्तिकरण (ख) अस्टाचार एक कोढ़ (ग) पर्यटन स्थल: राजगीर
3. अपने क्षेत्र में पीने के पानी की समस्या से संबंधित मेयर को पत्र लिखिए।

## Subject: Mathematics

1. Complete chapter 1, 2 and 3 from NCERT Textbook. All exercises questions answer ( In maths copy)
2. Make a mind map of the chapter 1, 2, and 3 on A4 sheet each chapter one page.
3. **Revision and practice for unit test 1( chapter 1,2,3)**

## Subject: Science

### PHYSICS

#### 1. Distinguish between:

- a) Distance and Displacement      b) Speed and Velocity      c) Uniform Motion and Non-uniform Motion.

2. Under what condition is the magnitude of average velocity of an object equal to its average speed?
3. An object travels 16 m in 4 s and then another 16 m in 2 s. What is the average speed of the object?
4. An athlete completes one round of a circular track of diameter 200 m in 40 s. What will be the distance covered and the displacement at the end of 2 min 20 s?
5. A train starting from rest attains a velocity of 72 km/h in 5 minutes. Assuming that the acceleration is uniform, find:
  - The acceleration.
  - The distance travelled by the train for attaining this velocity.

6. A stone is thrown in a vertically upward direction with a velocity of 5m/s. If the acceleration of the stone during its motion is 10 m/s<sup>2</sup> in the downward direction, what will be the height attained by the stone and how much time will it take to reach there?

### **Project**

**Formula Cheat-Sheet Poster** :-On an A4 size sheet, create a colorful "**Motion Formula Cheat Sheet.**" Derive the three equations of motion graphically, and highlight the variables (u, v, a, s, t) with their meanings and standard units.

### **Chemistry:**

1. Write the postulates of Dalton's atomic theory.(in chemistry copy)
2. Prepare a working model or chart on any one topic:
  - i) Atomic Structure
  - ii) Separation of mixtures
3. Perform and record an experiment: **Crystallization of sugar or salt**

Write:

- . Aim
- . Materials required
- . Procedure
- . Observation
- . Conclusion

### **Biology:**

1. **Do this on A4 paper:**

**Write a short note how diffusion and osmosis have differences for their mechanism.**

**Make a labelled diagram of a cell neat and clean.**

2. **Make a power point presentation on the following cell organelle, structure, function and significance in cellular metabolism.**

**A . Mitochondria Roll no 1-3**

**B. Nucleus. Roll no 4-6**

**C. Chloroplast . Roll no 7-9**

**D. Nuclear membrane . Roll no 10-12**

**E. Golgi body. Roll no 13 - 16**

## **Subject: Social Science**

1. **With the help of diagrams explain the theory of Tectonic Plates and the formation of 7 continents.**
2. **Name the different landforms of India and explain their process of formation along with any four characteristics of each.(Diagrams must)**
3. **Explain the different atmospheric layers and represent them using sketches and diagrams.**

## Subject: AI..(417)

### PYTHON PROGRAMS

(All codings are to be handwritten in A4 pages with proper outputs to be shown after each programs )

#### 1. Basic Input/Output & Arithmetic

- WAP to enter two numbers and print their sum, product, and average.
- WAP to find the area and perimeter of a rectangle (inputs: length, breadth).
- WAP to find the Area of a triangle using Heron's formula.
- WAP to convert Celsius to Fahrenheit ( $(C \times \frac{9}{5} + 32)$ ).
- WAP to calculate Simple Interest ( $(SI = \frac{P \times R \times T}{100})$ ).
- WAP to swap two variables without using a third variable. [[1](#), [2](#), [3](#), [4](#), [5](#)]

#### 2. Decision Making (If-Else)

- WAP to check if a number is Even or Odd.
- WAP to check if a number is Positive, Negative, or Zero.
- WAP to enter percentage and print Grade (Pass/Fail, or A/B/C/D).
- WAP to find the greatest among three unequal numbers.
- WAP to check if a year is a leap year. [[1](#), [2](#), [3](#), [4](#), [5](#)]

#### 3. Looping (For/While Loops)

- WAP to print numbers from 1 to N using a while loop.
- WAP to print the multiplication table of a user-entered number.
- WAP to print all odd numbers between 20 and 70.
- WAP to find the sum of natural numbers up to  $(N)$ .
- WAP to check if a number is prime. [[1](#), [2](#), [3](#), [4](#), [5](#)]