

# SUMMER HOLIDAY HOMEWORK

Prepared By: 

Name: \_\_\_\_\_

Class: \_\_\_\_\_

Section: \_\_\_\_\_

- Learn
- Explore
- Enjoy

Submitted To:

V R SENIOR SECONDARY SCHOOL



## **INSTRUCTIONS FOR THE PARENTS**

Dear parents,

Warm greetings!

Holidays are time when you can connect with your child in many ways. Parents are the first and the most important teacher for a child. You can encourage your child to participate in many educational activities at home and promote his/her quests to learn while working together as it will not only help your child to build, learn and develop his/her skills but also strengthen your bond with him/her .

Homework has to be done under the parents' guidance. Make him/her read daily one or two pages from their books. Don't miss to take your child outdoors in the evening.

Fix up a timetable for your child to organize his/her daily routine like watching television, mobile surfing for information, playing with friends, studying, etc. Dictate them whatever they have read or written.

Make your child responsible by assigning some of the household responsibilities like watering plants, arranging the dining table, organize their room and fill the empty water bottles and put them in refrigerator.

Encourage your child to eat healthy food, avoid eating junk food, wear clean clothes, wash hands before and after every meal, trim their nails. Let them play and share their stories with their grandparents.

Above mentioned guidelines will help your child to become a smart and an active learner.

## **INSTRUCTIONS FOR THE STUDENTS**

1. Get up early in the morning.
2. Wish your parents, grandparents and elders.
3. Pray to God daily.
4. Exercise everyday.
5. Brush your teeth twice a day in the morning and before bedtime.
6. Stay clean and healthy.
7. Do not play in the sunshine or at hot places.
8. Keep some water and food for birds.
9. Help the poor by giving them food, clothes or money.
10. Wash your hands with soap.
11. Do not waste water and electricity .
12. Do your vacation work by yourself.
13. Writing should be very neat and clean.
14. Try to do your written work regularly to enhance your writing skill.
15. Do one page of your English and Hindi writing books once a week.
16. Read your chapters loudly.

**NOTE- Homework should be done neatly on a separate notebook.**

# ENGLISH HOLIDAY HOMEWORK

## Literature Section

Read the chapters carefully and find some important words and use them in sentences.

Unit 2 Section A: Role Reversal Unit

2 Section B: Country Childhood

Write a short note on Sarojini Naidu.

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## Writing Section

You are Aarav/Aaradhya, Head Boy/Girl of ABC School. Write a notice informing students about the Annual Function.

Write an essay on 'Health is Wealth'.

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## Grammar Section

Identify the abstract nouns in the following sentences:

1. She is very honest.
2. Health is wealth.
3. True love is a divine quality.
4. Unity is strength.

Fill in the blanks with the correct form of the verbs:

1. He \_\_\_\_\_ (go) to school every day.
  2. You \_\_\_\_\_ (write) a letter yesterday.
  3. We \_\_\_\_\_ (see) you tomorrow.
  4. She \_\_\_\_\_ already (do) her work.
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## Pronoun

Read the chapter carefully and make notes on Pronoun.

# ग्रीष्मकालीन गृह-कार्य

## विषय - हिन्दी

- 1- 'मित्रता' पाठ के आधार पर एक अच्छे मित्र में कौन-कौन से गुण होने चाहिए; पर एक लेख लिखिए।
- 2- देश की स्वतन्त्रता, हिन्दी दिवस, शिक्षा का महत्त्व और स्वच्छता अभियान से सम्बन्धित 10 नारे लिखिए।
- 3- 'जैसे को तैसा' शीर्षक के आधार पर एक लघु कथा चित्र सहित लिखिए।
- 4- परीक्षा की तैयारी के संबंध में बात करते हुए दो मित्रों के बीच हुए संवाद को संवाद शैली में लिखिए।
- 5- हिन्दी साहित्य के प्रसिद्ध साहित्यकारों महादेवी वर्मा, मुंशी प्रेमचन्द, सुमित्रानन्दन पंत, आचार्य रामचन्द्र शुक्ल और बाबू गुलाबराय की रचनाओं का चित्र सहित भिलान कीजिए।
- 6- आपका एक मित्र गलत संगति में पड़ गया है। उसे समय के महत्त्व तथा जीवन पर संगति के असर के बारे में समझाते हुए एक पत्र लिखिए।
- 7- भैंसगाई की मार-कारण तथा उपाय इस विषय पर एक 120 शब्दों का अनुच्छेद लिखिए।
- 8- पर्यावरण बचाओ, स्वच्छ भारत, जल संरक्षण इन तीनों में से किसी एक विषय पर पोस्टर बनाइए।

## SUMMER HOLIDAY HOMEWORK

### MATHS

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#### **Chapter 1: A Square and a Cube**

##### **- Part A:**

1. Find the square of 12.
2. Find the cube of 5.
3. Find the square root of 144.
4. Find the cube root of 216.
5. Simplify:  $\sqrt{4 \times 9}$
6. Find the area of a square with side length 8 cm.
7. Find the volume of a cube with edge length 6 cm.
8. Simplify:  $(2^2 + 3^2) \times 2$
9. Find the perimeter of a square with side length 10 cm.
10. Find the surface area of a cube with edge length 5 cm.

##### **- Part B:**

1. Find the area of a square garden with side length 12 m.
2. Find the volume of a cube-shaped box with edge length 8 cm.
3. Simplify:  $(3^2 + 4^2) \times 3$
4. Find the side length of a square with area 256 sq cm.
5. Find the edge length of a cube with volume 1000 cu cm.
6. Simplify:  $\sqrt{9 \times 16}$
7. Find the square of 15.
8. Find the cube of 6.
9. Simplify:  $(2^3 + 3^3) \times 2$
10. Find the value of x:  $x^2 = 225$

##### **- Part C: Word Problems**

1. A square garden has a side length of 10 m. If a path 2 m wide is built around the garden, find the area of the path.

2. A cube-shaped box has an edge length of 8 cm. If it is filled with smaller cubes of edge length 2 cm, how many small cubes can fit inside?
3. A square room has a side length of 12 m. If the cost of flooring is ₹50 per square meter, find the total cost of flooring.
4. A cube-shaped container has an edge length of 10 cm. If it is filled with water, find the volume of water in liters.
5. A square plot has a side length of 15 m. If it is sold at ₹2000 per square meter, find the total cost of the plot.

## Chapter 2: Exponent or Power

- Part A:

1. Simplify:  $2^3 \times 2^4$
2. Evaluate:  $4^0$
3. Write in exponential form:  $2 \times 2 \times 2 \times 3 \times 3$
4. Simplify:  $(3^2)^3$
5. Evaluate:  $2^{-3}$
6. Simplify:  $(2^3 \times 2^2) / 2^4$
7. Evaluate:  $(3^2)^2 \times 3^{-1}$
8. Find the value of x:  $2^x \times 2^3 = 2^7$
9. Simplify:  $(4^2 \times 4^3) / 4^4$
10. Evaluate:  $(2^3 \times 3^2) / (2^2 \times 3^1)$

- Part B:

1. Simplify:  $3^2 \times 3^4$
2. Evaluate:  $5^0$
3. Write in exponential form:  $3 \times 3 \times 3 \times 2 \times 2$
4. Simplify:  $(2^2)^4$
5. Evaluate:  $3^{-2}$
6. Simplify:  $(2^3 \times 2^2) / 2^5$
7. Evaluate:  $(4^2)^2 \times 4^{-1}$
8. Find the value of x:  $3^x \times 3^2 = 3^5$
9. Simplify:  $(5^2 \times 5^3) / 5^4$

10. Evaluate:  $(2^3 \times 4^2) / (2^2 \times 4^1)$

### **- Part C: Word Problems**

1. A bacteria population doubles every hour. If the initial population is 1000, what will be the population after 5 hours?
2. A coin is dropped from a height of  $2^3$  meters. If it falls half the distance each time, how far will it fall in 4 bounces?
3. A company produces  $3^4$  packets of biscuits per day. If each packet contains  $2^3$  biscuits, find the total number of biscuits produced in a day.
4. A water tank can hold  $2^5$  liters of water. If  $3^2$  liters of water is already filled, how much more water can be added?
5. A car travels  $2^3$  km in 1 hour. If it travels for 4 hours, find the total distance traveled.

### **Activities**

1. Create a chart to show the squares and cubes of numbers from 1 to 10.
2. Make a model to show the concept of exponents.
3. Create a word problem involving exponents and solve it.
4. Find examples of exponents in real-life situations.
5. Create a chart to show the laws of exponents.
6. Make a model to show the concept of square roots.
7. Create a word problem involving square roots and solve it.
8. Find examples of square roots in real-life situations.
9. Create a chart to show the properties of squares and cubes.

# SCIENCE

\*Chapter 1: Exploring the Investigative World of Science\*

\*Competency Based:\*

1. \*Case:\* Aanya wants to know if plants grow better in sunlight or in shade. She puts one plant near the window and another in a dark cupboard. She waters both equally.

- a) What is the hypothesis in Aanya's experiment?
- b) Identify the independent variable and dependent variable in this case.
- c) What is one thing Aanya should keep constant to make it a fair test? Why?

2. \*Reasoning:\* Your teacher says "Science is not just about facts, it's about asking questions."

- a) Give 2 examples of scientific questions you can ask from daily life.
- b) How is a scientific question different from a normal question?
- c) Why is observation the first step of scientific investigation?

3. \*Case:\* Rahul dropped a paper and a stone from the same height. The stone reached first. He concluded "Heavier things fall faster."

- a) Is Rahul's conclusion always correct? Give reason.

- b) What other factor did Rahul not consider in his test?

- c) How can Rahul improve his investigation to test his idea properly?

#### \*Chapter 2: The Invisible Living World: Beyond Our Naked Eye\*

##### \*Competency Based:\*

4. \*Case:\* During the rainy season, your leather shoes and bread get a white-greenish layer. Your mother says it's due to "fungus".

- a) Why do fungi grow more in the rainy season?

- b) Is this fungus useful or harmful here? Explain.

- c) Name 1 useful fungus and 1 harmful fungus with their use/harm.

5. \*Reasoning:\* You cannot see bacteria with your naked eyes but they are present on your hands.

- a) Why do doctors ask us to wash hands before eating?

- b) Which instrument is used to see microorganisms? Who discovered it?

- c) Give 2 examples where bacteria are "friends" and 2 examples where they are "foes".

6. \*Case:\* Milk turns into curd in summer within 5-6 hours, but takes 12+ hours in winter.

- a) Which microorganism converts milk into curd?

- b) Why does this process take longer in winter? Explain the role of temperature.

- c) Why does curd not turn back into milk? What type of change is this?

### \*Chapter 3: Health: The Ultimate Treasure\*

#### \*Competency Based:\*

7. \*Case:\* Two students, Aman and Rohan, are of the same age. Aman eats homemade food, plays daily, and sleeps 8 hours. Rohan eats chips daily, plays video games, and sleeps 5 hours. Rohan falls sick often.

- a) Which student is healthier? Give 2 reasons based on the case.

- b) Define "health" according to WHO. Is just not having disease enough to be healthy?

- c) Suggest 3 healthy habits Rohan should adopt.

8. \*Reasoning:\* "Prevention is better than cure."

- a) Explain this statement with respect to communicable diseases. Give 1 example.

- b) Name 2 diseases caused by contaminated water and 2 by air. How can we prevent them?

- c) Why is vaccination called a preventive measure? Name 2 diseases prevented by vaccines.

9. \*Case:\* In a village, many people got sick after a flood. Doctors found that people were drinking water directly from the pond.

- a) What kind of disease is likely to spread here? Give 1 example.

- b) What are the 2 main ways this disease can spread?

- c) As a health worker, what 3 immediate steps will you suggest to villagers to stop the spread?

### **SSC Holiday Homework**

**Q.** Explain the Ashtapradhan council of **Shiva ji Maharaja** and name its eight ministers with picture.

**Q.** Describe the famous Maratha forts and their importance with pictures.

**Q.** Explain any three important battles of the Maratha with pictures.

I) Battles of Pratapgad (1659)

II) Battles of Kolhapur (1659)

III) Battle of Panipat (1671)

IV) Battle of Sinhagad (1670)

V) Battle Pavan Khind (1660)

VI) Battle of Purandar (1665)

VII) Battle of Salher (1672)

**Q.** Write a short note on **Baji Rao I** with picture.

**Q.** Write any five slogans on the topic “Universal Adult Franchise and Voting Awareness and decorate them with suitable picture”.

Example Picture.

- Voting machine (EVM)
- Indian Flag
- People standing in voting line
- Inked finger sign
- Ballot box drawing

**Q.** Collect information about the recent west Bengal elections and write answers to the following question.

A. When were the elections held?

B. Which parties participated in the election?

C. What role did the election commission of India play?

D. Why is security important during elections?

E. What did you learn from this election?

**Q.** Write a biography on Nelson Mandela in 200 words.

## **SUBJECT-G.K.**

- 1- What is World bank? Describe in brief.(In150words)**
- 2- Why is 'Sarmat' Called the world's most powerful missile by Vladimir Putin? (In 100 words)**
- 3- What are the key features of India's new missile Pralay? How does it strengthen India's defense system?**
- 4- Who won the International Booker Prize in 2026?**
- 5- What is the theme of Earth Day in2026? (In100 word)**

# COMPUTER

## Instructions:

- Do all work neatly in a separate notebook or file.
- Use diagrams and examples wherever required.
- Submit your homework on the first day after vacation.

## Section A – Theory Work

### 1. Computer Fundamentals

- Define **Computer** and explain its components.
- Write the functions of:
  - Input Devices
  - Output Devices
  - CPU

### 2. Hardware & Software

- Differentiate between **Hardware and Software** (5 points).
- Write types of Software with examples:
  - System Software
  - Application Software

### 3. Operating System

- What is an **Operating System**?
- Write any **5 functions of OS**.

### 4. Memory & Storage


- Explain:
  - Primary Memory
  - Secondary Memory
- Draw and label **Memory Hierarchy Diagram**.

### 5. Cyber Safety

- What is **Cyber Safety**?
- Write **5 rules** to stay safe online.

## Section B – Practical / Activity Work

### 1. MS Word Activity

- Create a document on:  
 *“Importance of Computers in Education”*
- Apply:
  - Heading styles
  - Bold, Italics

- Insert picture

## 2. PowerPoint Presentation

- Make a **5-slide presentation** on:  
☞ *"Uses of Internet"*  
Include:
  - Title Slide
  - Content Slides
  - Images

## 3. Typing Practice

- Practice typing daily for **10 minutes**.
- Write one paragraph about your **summer vacation**.

# Section C – Project Work

## ✦ Project Topic (Any ONE):

- Evolution of Computers
- Types of Computers
- Artificial Intelligence (Basic Introduction)

## ☞ Include:

- Cover Page
- Index
- Content (4-5 pages)
- Pictures

# Section D – Worksheet

## Answer the following:

1. What is a computer?
2. Name any 2 input devices.
3. What is software?
4. What is internet?
5. Write full form of CPU.

ग्रीष्मकालीन अवकाश  
हेतु, गृहकार्य  
, विषय - संस्कृत

निर्देश - सभी विद्यार्थी ग्रीष्मकालीन अवकाश कार्य  
संस्कृत कॉपी में करेंगे।

(1) संस्कृत में अपना परिचय लिखिए।  
(नाम, विद्यालय, कक्षा, परिवार आदि)

(2) पञ्चस्वान्त्रय सैनिकानां चित्राणि योजित्वा तेषां  
विषये द्वे-द्वे वाक्ये लिखत।  
(पाँच स्वतन्त्रता सैनिकों के चित्र बनाइए व उनके विषय  
में दो-दो वाक्य लिखिए।)

(3) स्वकक्षायाः विंशतिः छात्राणां नामानि वर्णमालायाः  
क्रमानुसारेण संस्कृत भाषायां लिखत।  
(अपनी कक्षा के 20 छात्रों के नाम वर्णमालानुसार  
संस्कृत में लिखिए।)

(4) अपनी पाठ्यपुस्तक 'दीपकम्' से पाठ - 3, 4  
को संस्कृत में पढ़िए व शब्दार्थ लिखकर  
अभ्यास कार्य करने का प्रयास कीजिए।

(5) 1 - 50 तक गिनती संस्कृत में लिखिए।