



SHARDA VIDYA MANDIR (2026-27)

Holiday Homework

Class – VIII

Last date of submission of Holiday homework is 20<sup>th</sup> June 2026

**General Instructions:**

\* Parents are requested to only guide their children while doing the assignment. Only the work done by the students will be assessed.

\* Project/Homework will be assessed based on neatness, creativity, and originality of ideas.

## English

Choose a poetry on the theme 'Nature'. You may also take the different aspects of Nature like Seasons, Landscapes, Weather and Sky. Write the poetry creatively and a short Bio Sketch of the poet. Draw scenes or paste pictures (or different articles to give it a 3D look) related to the poem. Also mention the poetic devices used. Make it a visually appealing chart using a light colour hand made sheet.

## Hindi

महत्वपूर्ण निर्देश :-

- 1] हिंदी ग्रीष्मकालीन अवकाश गृहकार्य हिंदी की कक्षाकार्य कॉपी में पूर्ण करें।
- 2] एक प्रश्न एक पेज पर पूरा होगा। इसप्रकार सभी प्रश्न अलग - अलग पेज पर होंगे।
- 3] कार्य साफ़ - स्वच्छ व्यवस्थित पूरा किया जाएगा।
- 4] चित्रों को चाहे तो बना सकते हैं या पुराने समाचार पत्रों से काटकर चिपका सकते हैं।

प्रश्न -1] कविता 'स्वदेश' के अनुसार देशभक्ति को दर्शाते हुए किन्हीं दो विषयों के चित्र बनाकर स्पष्ट कीजिए। [

प्रश्न -2] अपने आसपास की किन्हीं 10 विशेष संज्ञा शब्दों को लिखिए और उसकी विशेषता बताते हुए उस पर वाक्य बनाइए।

## Sanskrit

गीता के 10 श्लोक अर्थ सहित चार्ट पेपर पर लिखिए।

एक अध्याय से केवल एक ही श्लोक लिखा जाये।

## Mathematics

### Section A: Basic Practice (Compulsory)

To be done in your Maths C.W. copy.

1) Find square roots using prime factorization:

- a) 1764      b) 2025      c) 3600      d) 5184

2) Find the smallest number to multiply to make perfect square:

- a) 432      b) 980      c) 1575

3) Find the smallest number to multiply to make perfect square:

- a) 180      b) 720      c) 338

4) Find cube roots:

- a) 4913      b) 9261      c) 13824      d) 15625

## **Section B: CHART WORK**

**Roll number (1-7)**

### **Square Root Chart**

Design a neat and colourful chart showing square roots from 1 to 50 and write a neat explanation of how square roots are calculated.

**Roll number (8-14)**

### **Cube Root Chart**

Design a neat and colourful chart showing cube roots from 1 to 50 and write a neat explanation of how cube roots are calculated.

**Roll number (15-21)**

### **Laws of Exponents**

Create a colourful and well-presented chart explaining exponents and powers.

**Roll number (22-28)**

### **Sum of first n Natural Numbers**

Design an attractive chart to illustrate that the sum of the first odd numbers is always  $n^2$  with the help of square or triangular diagram.

**Roll number (29-35)**

### **Prime and Composite numbers**

Prepare a neat and informative chart on prime and composite numbers (1 to 100) with explanations of both concepts.

**Roll number (36 and above)**

### **Prime and Composite number Express**

“Design a chart showing two express trains—one for prime numbers and one for composite numbers from 1 to 100 —to classify them clearly, and add a neat explanation of the concept.”

## Science

### Physics

The "Heavy Lifter" Challenge-

Your goal is to build an electromagnet capable of picking up the maximum number of standard steel paperclips.

Materials needed:

1. A large iron nail (approx. 3–4 inches).
2. About 2–3 meters of insulated copper wire.
3. A 1.5V or 9V battery.
4. Electrical tape and sandpaper (to strip wire ends).
5. Paperclips for testing.

Construct: Wind the wire tightly around the nail (the core).

Test: Connect the wire ends to the battery and see how many paperclips you can lift.

Iterate: You must perform three variations of your design. For example:

Variation A: Change the number of turns (e.g., 20 vs. 50 turns).

Variation B: Change the core material (e.g., replace the iron nail with a plastic straw or wood).

Variation C: Change the voltage (e.g., one battery vs. two batteries in series).

Record your observations in Physics copy.

## Chemistry

Topic: "States of Matter"

Instructions:

Make a colorful chart showing 3 states of matter:

- Solid
- Liquid
- Gas

Include:

- Diagram of particle arrangement
- Properties (shape, volume, movement)
- Examples (ice, water, air)

Extra Idea:

Use cotton for gas, beads for solids, and colored water drawings for liquids.

### Case study 1

A teacher breaks a piece of chalk into smaller pieces and then crushes it into powder.

Questions:

1. Is chalk still a solid after breaking? Why?
2. What does this activity show about the particles of matter?
3. Do the particles of chalk change when it is crushed?
4. What property of solids is shown in this activity?

### **Case Study 2:Iron Rod Heating**

An iron rod is heated at one end. After some time, the other end also becomes hot.

Questions:

1. How does heat travel through the iron rod?
2. What does this tell us about the particles in solids?
3. Do particles in solids move? If yes, how?
4. Why do solids not flow like liquids?

### **Biology:**

HOLIDAY HOMEWORK – POSTER MAKING

TOPIC: MICROBES – FRIENDS OR FOES?

Think & Draw: “If all microbes vanished overnight... Holiday or Horror Story?”

Your Poster Must Show:

- \* Friends: Food (curd/bread) | Plants (nitrogen) | Gut bacteria
- \* Foes: Diseases / Food spoilage
- \* Both? 1 microbe that helps and harms (e.g. E. coli)

Make it fun: Use doodles, arrows, colours. Split page / comic / before-after.

### **Social Science**

#### **Roll no 1 to 12**

Students will prepare a chart on 'Types of resources ' by using pictures, cardboard, any waste material which can be used in chart.

#### **Roll no 13 to 26**

Students will prepare a pictorial Timeline on 'History of India'(Ancient,Medieval,Modern) They will also stick related pictures to show the events.

#### **Roll no.27 to the last Roll no**

Prepare a collage on A4 size chart paper on'Transition from Medieval to Modern Period in India.