

MOUNT COLUMBUS SCHOOL

NEW DELHI

2026-27

SUMMER VACATION

HHW



Stay Hydrated

Drink plenty of water and stay fresh!



Eat Healthy

Have fruits, salads and light meals.



Stay Protected

Wear a hat, sunglasses and use sunscreen.



Keep Learning

Read books, learn new things and explore!



Stay Active

Play indoor games, do yoga and exercise.



Be Kind

Help others, spend time with family and friends.

Relax,
Refresh,
Recharge!

Enjoy, Explore, Excel!

Make wonderful memories
this summer! ♥



CLASS: VIII

NOTE:- The Holiday Homework to be done on A4 size sheets.

SUBJECT: KAUSHAL BODH

Project Topic: Smart Water Audit & Conservation Challenge

Prepare an innovative project file on the topic “**Smart Water Audit for Water Management**” based on daily life observation and creative thinking.

Your Project Must Include:

1. Cover Page

Project Title

Student’s Name

Class & Section

Roll Number

Creative slogan related to water conservation

2. Introduction

Write about:

Meaning of Water Audit

Importance of Water Conservation

Why water management is necessary in today’s world

3. Home Water Survey Activity

Observe and record the water used at home for one full day in activities such as:

Drinking

Cooking

Bathing

Washing Clothes

Cleaning Utensils

Mopping/Cleaning

Interview family members and note where water is wasted the most.

4. Data Collection & Analysis

Prepare:

A neat table/chart showing estimated water usage in liters

A bar graph or pie chart representing water consumption

Compare:

“Water Used” vs “Water That Could Be Saved”

5. Innovation Task

Do any ONE of the following creative activities:

Design a Rainwater Harvesting Model using waste materials

OR

Create a Water Saving Device Idea with labeled diagram

OR

Make a “7-Day Save Water Challenge” chart for your family

6. Awareness Section

Include:

10 methods to save water

5 catchy slogans on water conservation

A self-made poster on:

“Save Water, Secure the Future”

7. Real-Life Connection

Paste pictures/drawings of:

Rainwater harvesting

Drip irrigation

Water recycling methods

Water conservation in schools or homes

Also write how students can help in saving water daily.

8. Reflection & Conclusion

Write:

What you learnt from this project

Changes you will make in your daily habits
How this project helped you become more responsible towards nature

SUBJECT: ENGLISH

Activity: Freedom Poster Collage

Create a collage that contrasts slavery and freedom using drawings, magazine cut-outs, or symbols like chains, birds, or open skies. Add 2–3 lines explaining how the artwork connects with the poem's message.

The Brahmarakshasa (Graphic Story)

Character Mask & Role Play

Create masks of key characters and perform a short scene from the story in the class, focus on expressions, voice, and actions to make the characters lively. This encourages imagination and dramatic skills.

Diary Writing

Write a diary entry from the perspective of the lute player, expressing thoughts and feelings during key events. Use simple descriptive language and emotions. This enhances empathy and creative writing.

SUBJECT: HINDI

परियोजना कार्य

- एक योग अलबम बनाइये जिसमें 10 आसनों के चित्र लगाकर उन आसनों के नाम के साथ उपयोगिता लिखिए। (यह कार्य स्कैपबुक में करना है।)

क्रियाकलाप

1. भारत के पांच राज्यों की जनसंख्या (करोड़ों में) और साक्षरता दर का तुलनात्मक ग्राफ बनाइये। (ग्राफ पेपर पर बनाना है।)
2. तुलसीदास और मीराबाई के कालखंड की चर्चा करते हुए उनकी प्रमुख रचनाओं की काव्यगत विशेषताओं का तुलनात्मक चार्ट बनाइये। (ए-फॉर साइज शीट पर करना है।)

नोट:-संपूर्ण कार्य एक फाइल फोल्डर में अपने नाम की सूची लगाकर जमा करेंगे।

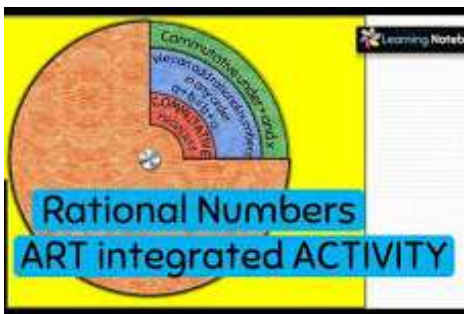
SUBJECT: SANSKRIT

1. "विद्या का महत्व" विषय पर पोस्टर बनाएँ और 10 वाक्य संस्कृत भाषा में लिखें।
2. घर में उपयोग होने वाली संस्कृत भाषा में औषधीय वस्तुओं की सूची बनाएँ।
3. स्वास्थ्य विषय पर संस्कृत में स्लोगन लिखें।
4. संवाद लेखन - छात्र श्रीकृष्ण और कालिया नाग के बीच 5-6 पंक्तियों का संवाद लिखें।

SUBJECT: MATHEMATICS

Activity 1: Represent properties of rational numbers on a circular disc.

Activity2: Make a model of clock representing square and square root of a number.



SUBJECT: SCIENCE

Roll No. 1 to 20

1. Create a poster showing useful and harmful microorganisms in daily life.
2. Create a short story where particles of matter act as characters (solid, liquid, gas) showing their properties.

Roll No. 21 to 40

1. Make a comic strip showing how germs spread and how hygiene prevents diseases.
2. Make an infographic showing differences between solid, liquid, and gas with examples.

SUBJECT: SOCIAL SCIENCE

1. Prepare a neat and colourful flow chart showing different types of resources with suitable examples and pictures.
2. Prepare a Map Puzzle by arranging cut-outs of Indian states on a blank political map of India.
3. Create a Mind Map and Timeline Activity based on important events of the chapter Reshaping India's political map.
4. Draw a beautiful painting describing the glance of Mughal painting / miniature painting

SUBJECT: INFORMATION TECHNOLOGY

1. Network Diary / Scrapbook
Document every network you use in a day — home Wi-Fi, mobile data, school LAN — with diagrams, photos, and notes on how each works.
2. Draw Your Home Network
Map out all devices connected to your home router (phones, laptops, smart TVs, printers). Label each with its IP address and connection type (wired/wireless).

SUBJECT: ARTIFICIAL INTELLIGENCE**Project Title: “Design Your Own AI Project (Stage 1 & 2)”**

Complete **two main stages** of an AI project: **Problem Scoping** and **Data Acquisition**.

TASK 1: Problem Scoping Document

Objective: To clearly define a real world problem for an AI project.

Steps:

Choose **one real world problem** around you, for example:

- Reducing food wastage in the canteen
- Predicting when a classroom becomes too noisy
- Monitoring electricity or water usage at home
- Predicting which days more students are absent.

On 1–2 A4 sheets, write a **Problem Scoping Document** with these headings:

- **Problem Statement:** 1 clear paragraph explaining the problem.
- **Why is this problem important?** (4–5 lines).
- **Stakeholders:** Who is affected (students, teachers, parents, community, etc.).
- **Possible Non-AI Solutions:** Simple ways to handle this problem without AI.
- **Why AI could help:** 1 short paragraph on how AI might improve the solution (connect to ideas of AI applications from your class).

TASK 2: Mind Map of the Problem Space

Objective: To explore all aspects of the chosen problem using a visual mind map.

Steps:

On an A4 sheet, create a **mind map** (as done in the “mind mapping activity” for problem scoping).

In the **centre**, write the problem title.

Draw branches for:

- Causes
- Effects
- People involved
- Places/contexts where it happens
- Possible data that can be collected
- Possible AI-based ideas.

Use colours, arrows and small symbols to make it clear and neat.

TASK 3: Data Acquisition Plan

Objective: To decide what data is needed and how to collect it.

Steps:

Based on your problem and mind map, write:

- **Type of data needed:** numbers, text, images, sensor data, etc.
- **Sources of data:**
 - People (surveys, interviews)
 - Devices/sensors (if relevant)
 - Existing open datasets (e.g., government data portals – just name the type).

Design **one data collection tool:**

- Either a **Google Form questionnaire** (write all questions and options clearly), or
- A **survey/log sheet table** with suitable columns.

Create **5–10 sample (dummy) entries** to show how data will look when collected.

Keep the design realistic so it can be used in class later when you move to Data Exploration.

Arrange your project file as follows:

Cover Page (Name, Class, Section, Roll No., “Design Your Own AI Project – Stage 1 & 2”).

Task 1 – Problem Scoping Document.

Task 2 – Mind Map of the Problem Space.

Task 3 – Data Acquisition Plan & Sample Data.

Submission instructions:

- **Email Submission:**
 - Scan/click your sheets or export as PDF.
 - Email to naushad.mtcolumbus@gmail.com with subject line: “Class 8 – AI Holiday Homework – [Your Name]”.

Deadline for email: On or before **30 June 2026**.

- **Physical Submission:**

Submit your project file in class in **July 2026**, on the date announced by your class teacher.

SUBJECT: ART

TOPICS

- Create a landscape painting using water colours or poster colours.
- Make a wall hanging using jute, paper, or waste materials.
- Design a best-out-of-waste craft item using household materials.