

ST. MICHAEL'S SR. SEC. SCHOOL

3, PUSA ROAD, NEW DELHI

CLASS 8 HOLIDAY HOMEWORK 2026-27

MATHS

1) "Math Around Me" – Photography Project

Mathematics is present everywhere around us! Observe your surroundings carefully and capture how maths appears in daily life through creative photography.

- **Activity Instructions**

Students have to click or collect photographs that show any of the following mathematical concepts:

a) **Square Patterns**

Examples: floor tiles, chessboard, window panes, notebooks, building designs, etc.

b) **Fractional Measurements**

Examples: measuring cups, pizza slices, rulers, recipes, divided objects, etc.

c) **Repeated Patterns**

Examples: rangoli designs, brick walls, fabrics, staircase designs, railings, etc.

d) **Symmetry and Roots**

Examples: leaves, flowers, butterflies, mirrors, tree roots, architectural designs, etc.

- **Presentation Guidelines**

a) Paste the photographs neatly in a **scrap file/project file** or on **A3 sheets**.

b) Below each photograph, write:

i) **Title of the photograph**

ii) **Mathematical concept used**

iii) **A short explanation (3–4 lines)** describing how maths is visible in the picture.

2) **Roll no: 1 to 5** will make model on the assigned topic and will present that in mosaic exhibition.

3) Do questions from the chapter end practice worksheets for the following chapters in your homework register:

- Rational Number
- Exponents
- Square and Square Roots

4) Revise the chapters

- Rational Number
- Exponents
- Square and Square Roots

SCIENCE

1. Make a working model, on any one topic for Interhouse Competition (4th July 2026).

- Green Energy
 - Waste management and alternatives to plastics
 - Hydraulic technology
2. **Roll no: 6 to 10** will make model on the assigned topic and will present that in mosaic exhibition.
 3. **“Invisible Forces Around Me” – Pressure in Daily Life**

In this project, you have to observe and collect real-life examples where pressure is applied in our daily lives. You may either click photographs or make neat sketches/drawings of examples such as:

- High heels sinking in mud
- Tractor tyres
- School bag straps
- Needles and knives
- Camel feet in deserts
- Broad dam walls

You may also include other creative examples related to the concept of pressure.

➤ **Instructions:**

1. The project is to be prepared in a **scrap file/scrapbook**.
 2. Design a **creative and suitable cover page** related to the topic “Invisible Forces Around Me”.
 3. Each example should include:
 - Picture/Sketch
 - Short explanation of how pressure is acting in that situation
 4. Maintain neatness, creativity, and proper presentation throughout the file.
 5. Use decorative headings, borders, and labels to make your scrapbook attractive and informative.
3. Revise Ch 2 Microscopic World- Life Beyond Our Sight
Ch 7 Particulate Nature of Matter

SOCIAL SCIENCE

THE GIVEN HOLIDAY HOME WORK NEEDS TO BE DONE AS DIRECTED:

1. Draw a chart on an A4 sheet and paste in your copy. Topic – ‘Hierarchy of Courts in India’
[Ref. Pg.196]
2. Revise all the chapters done and complete all the pending work.
3. On an outline map of India, locate and mark the following – Ref. Pg. 39 of the textbook
‘Main Centre’s of Uprising of the Revolt of 1857’
- Meerut, Bareilly, Delhi, Lucknow, Jhansi, Kanpur, Faizabad, Gwalior, Arrah
4. **Project Work –**
* Make a chart on an A3 sheet on the topic – ‘Judiciary of India’

- * Paste the picture of the Supreme Court and the Chief Justice of India
- * Paste the picture of the High Courts of –Delhi, Mumbai and Kolkata and paste the pictures of their Chief Justices.
- Paste the pictures of the District and Metropolitan Courts of your area. Write the names of the places where the respective courts are situated.

5. MODEL MAKING:

This has to be done by the students of following mentioned roll numbers.

The topic mentioned is specifically planned according to the class, hence it needs to be taken sincerely.

CLASS - 8 RUBY, EMERALD AND DIAMOND

ROLL NUMBERS- 11, 12, 13, 14, 15

Roll no 11- 3D model on the topic, 'Soil Profile'

Roll no 12- 3D model on the topic, 'Types of Soil' – on a map.

Roll no 13- 3D model on the topic, 'Subjects under the 3 lists'

Roll no 14- 3D model on the topic, 'Fundamental Rights'

Roll no 15- 3D model on the topic, 'Structure of Indian Parliament'

ENGLISH

1)**Cursive writing** – To improve your handwriting and enhance your neatness, practice Cursive writing during Holidays. Complete Chapter 4 – A History of Reading (Literature) in Handwriting Notebook (4-Line notebook).

2) **Create Your Own Mini Book** – Read your favourite book and create a unique mini book including the following:

- a) Book cover (Front and Back)
- b) Title
- c) Names of characters
- d) Write the story in short
- e) Illustrations/pictures/drawings to explain the story
- f) Message/lesson given

3)For the upcoming **Mosaic Exhibition**, showcase your creativity, ideas, expression and talent!

- a) Class 8R: Roll No. 16 to 20 - Present Rapid-Fire quiz/Crossword
- b) Class 8E: Roll No. 16 to 20 - Create a Mystery box
- c)Class 8D: Roll No. 16 to 20 - Prepare Tongue Twister Challenge

HINDI

1. परियोजना कार्य-वाटिका पाठ्यपुस्तक की पृष्ठ संख्या- 46 पर कल्पना के आधार पर एक ऐसी कविता लिखे जिसमें आपके दादा -दादी अथवा नाना-नानी पर कविता की कुछ पंक्तियाँ लिखिए जिनमें उनके प्रति आदर और उनका आपके प्रति स्नेह झलकता हो। (उनकी आपके साथ कोई यादगार तस्वीर भी लगाएँ) (A4 शीट पर बनाकर या लिखकर हिंदी की कॉपी में चिपकाए।)
2. सप्ताह में दो सुलेख करें। (एक अलग कॉपी में)
3. एक अनुच्छेद और पत्र लिखें। (हिंदी कॉपी में)
4. सभी कराए गए कार्य को पूरा करें और याद करें।
5. ROLL NO.-21-25 व्याकरण – 5-10 मुहावरों का 3D तरीके से A3 शीट पर सचित्र प्रस्तुतीकरण। (FOR EXHIBITION)

SANSKRIT

- प्रोजेक्ट - पाठ 2 वृक्षारोपणस्य मेहत्वम् - पाठ में से पाँच पंक्तियाँ चित्र सहित प्रस्तुतिकरण। (Roll No. 20-25, Make it on a chart paper)
- धातु रूप - गम् - पाँचों लकार - कॉपी में लिखें एवं याद करे।
धातु रूप - भू - पाँचों लकार - कॉपी में लिखें एवं याद करे।
- 1 - 20 संस्कृत में सख्यां लिखे एवं याद करे।
- पक्षियों (10) के नाम लिखे एवं याद करे।
- शब्द रूप - बालिका - कॉपी में लिखें एवं याद करे।
शब्द रूप - मुनि - कॉपी में लिखें एवं याद करे।

ROBOTICS

1. Project Research

Choose one:

- Rain sensor
- PIR sensor
- Ultrasonic sensor

Write:

- Working principle
- Uses
- Diagram

2. Arduino Code Analysis

Explain line-by-line:

```
void setup() {  
pinMode(13, OUTPUT);  
}
```

```
void loop() {  
digitalWrite(13, HIGH);  
delay(1000);  
digitalWrite(13, LOW);  
delay(1000);  
}
```

3. Innovation Task

Design:

Smart Dustbin

Draw a circuit and explain logic.

Mosaic Exhibition:-

Roll No 26 to 28

-Project Topic:- Smart Tap (8th D, Group(Roll no.26 to 28))

-Project Topic:- Farm Monitoring System (8th E, Group (Roll no.26 to 28))

-Project Topic:- Alcohol Detection (8th R, Group(Roll no.26 to 28))

COMPUTER

- 1) Make a handmade poster (A3 size) on Star and Ring Topology.
- 2) Make a PPT 20 to 25 slides on the topic CYBER SAFETY (ORIGINAL WORK) and submit in a pen drive.
- 3) Create a Presentation using Canva on Healthy Summer Habits (5 slides)

MOSAIC -Roll No-29

Make a PPT 20 to 25 slides on the topic ARTIFICIAL INTELLIGENCE AND ITS APPLICATIONS (ORIGINAL WORK) and submit in a pen drive for MOSAIC.

Roll No-30

Make a PPT 20 to 25 slides on the topic NETWORKING FUNDAMENTALS. (ORIGINAL WORK) and submit in a pen drive for MOSAIC.

ART

ART- Make a landscape on an A3 size sheet using colours and waste materials.

CRAFT- Make a Diwali handicraft door decoration (bandhanwar) using craft paper and Decoratives.

PT

P.T PROJECT FOR MOSAIC EXHIBITION

CLASS: 8 RUBY

ROLL NO	PROJECT TOPIC
36	FOOTBALL GAME
37	IMPORTANTCE OF FITNESS
38	BASKETBALL GAME

CLASS: 8 EMERALD

ROLL NO	PROJECT TOPIC
36	FOOTBALL GAME
39	FOOTBALL GAME + HEALTHY HABITS POSTER
40	CRICKET GAME

CLASS: 8 DIAMOND

ROLL NO	PROJECT TOPIC
36	OUTDOOR GAMES
39	CRICKET GAME

LIBRARY

PROJECT FOR MOSAIC EXHIBITION

CLASS: 8 RUBY

<u>ROLL NO</u>	<u>PROJECT TOPIC</u>
<u>39</u>	<u>Books That Changed the World (Any 3–4 books)</u>
<u>40</u>	<u>History of Printing (Gutenberg to Digital)</u>

CLASS: 8 EMERALD

<u>ROLL NO</u>	<u>PROJECT TOPIC</u>
<u>37</u>	<u>Famous E-Libraries and Reading Apps (Advantages & Disadvantages)</u>
<u>38</u>	<u>Library Quiz Board (Create 15–20 quiz questions with answers for exhibition)</u>

CLASS: 8 DIAMOND

<u>ROLL NO</u>	<u>PROJECT TOPIC</u>
<u>37</u>	<u>3D model of a library</u>
<u>38</u>	<u>Mini story book with pictures</u>
<u>40</u>	<u>Make 7 beautiful bookmarks with creative design</u>

Instructions:

- Present these topics in the form of posters, charts, or a dummy book using colourful pictures and slogans.
- Models can be made using cardboard, waste materials, or recycled items.
- The cover page design should be creative and attractive.
- Summary writing should be done in neat handwriting

MUSIC

MOSAIC PROJECT (MUSIC)

- Class 8th R , E , D –

3D Poster Making on Western Music.

DANCE

MOSAIC PROJECT (DANCE)

The project has been assigned to the appointed students for Dance.

Make a Collage on a Chart paper of any colour

- Class 8th – Folk Dance

MORAL SCIENCE

A. Create a project on **LEADERSHIP**. (use A4 size sheet)

Answer the given questions:

- 1.What qualities define a leader? Which quality is most important: courage, honesty, or vision?
- 2.Compare peaceful vs strong leadership approaches.
- 3.What life lessons do leaders teach us?
- 4.Which leader inspires you? Paste/draw the picture.
- 5.If you were a leader, what problems in India you would solve first?

(For reference, read Chapter 3 – Leadership)

B. Make a chart according to your roll numbers on the following topics:

1. Roll No. 1-15 : Be Unique-Don't follow the crowd
2. Roll No. 16-30 : Heroes of India
3. Roll No. 31 till last : St Michael – The Guardian Angel
4. Roll No. 1-10 : Light over Darkness
5. Roll No. 11-20 : Read, Learn, Grow
6. Roll No. 21-30 : Joy to the World
7. Roll No. 31 till last : Hard work today, Success tomorrow

G.K.

A) Prepare an informative scrapbook/project on Amazing Bikes of the World.

For Roll. no (1-23)

Include the following details:

1. Name of any 8 Famous Bikes
2. Company/Brand Name
3. Country of Origin
4. Special Features
5. Maximum Speed (if available)
6. Pictures of the Bikes

B) Choose any 10 Indian States and prepare a colourful project on their famous regional delicacies.
For Roll.no (24-46)

Include the following details:

1. Name of the State
2. Famous Dish/Delicacy
3. Main Ingredients Used
4. Interesting Fact about the Dish
5. Paste/draw pictures of the dishes