

KENDRIYA VIDYALYA GOLDEN ROCK TRICHY
AUTUMN BREAK HOMEWORK CLASS VIII (2025-26)

MATHEMATICS

1. *Square Numbers*: Find the squares of numbers from 1 to 20.
2. *Cube Numbers*: Find the cubes of numbers from 1 to 10.
3. *Exponents*: Simplify the expression: $2^3 \times 2^2$
4. *Powers of 10*: Write the numbers 1000 and 10000 in exponential form.
5. *Real-Life Applications*: Find examples of exponents in real-life scenarios (e.g., scientific notation).
6. *Square Roots*: Find the square roots of perfect squares (e.g., $\sqrt{16}$, $\sqrt{25}$).
7. *Cube Roots*: Find the cube roots of perfect cubes (e.g., $\sqrt[3]{8}$, $\sqrt[3]{27}$).
8. *Word Problems*: Create and solve word problems involving squares and cubes.
9. *Comparing Numbers*: Compare the numbers 2^5 and 5^2
10. *Real-Life Applications*: Find examples of exponents and powers in real-life scenarios.
11. *Review of Concepts*: Review the concepts learned in the chapters and create a concept map.
12. *Practice Problems*: Practice solving problems from each chapter.

Subject Enrichment Activity

Math Project: Create a project that demonstrates the application of squares, cubes, and exponents in real-life scenarios. Choose a topic of your interest (e.g., architecture, science, finance) and present your findings in a report or presentation. This activity will help you develop problem-solving skills and appreciate the relevance of mathematics in everyday life.

NOTE :

1. Do your homework in A4 Sheets
2. Do Subject Enrichment Activity on Chart.

SOCIAL STUDIES

Read & write hard meanings and make short notes in SST Note-Book for these chapters
The Rise of the Marathas

The colonial Era in India

Factors of Production

And make one chart for your favourite Chapter.

HINDI

कक्षा 8 हिंदी

1 कबीर ने अंधविश्वास का विरोध क्यों किया?

2 कबीर का जीवन और उनकी वाणी समाज को क्या संदेश देती है

3 कबीर के किसी एक दोहे का चित्र बनाइए और उसे सजाइए।

4 अपने गाँव/शहर के किसी धार्मिक स्थल का चित्र बनाकर वहाँ देखे आचरण पर 5 -6 वाक्य लिखिए
Write in A4 sheet

□ And make one chart for your favourite Chapter.

SCIENCE

Part A: Activities / Projects

1. Model Making

Make a working or non-working model on any one of the following topics:

Rainwater harvesting

Human respiratory system (chart paper)

Fire alarm circuit (simple)

2. Science in the Kitchen

Do a simple science experiment at home (e.g., testing solubility of different substances, effect of temperature on dissolving sugar, extracting natural colors from turmeric/beetroot).

Record your observations in a chart or table.

3. Poster / Collage

Prepare a colorful poster on the theme “Save Energy, Save Earth” or “Say No to Plastic”.

Part B: Practice Questions (Science Notebook)

1. Differentiate between:

(a) Metals and Non-metals (any 4 points)

(b) Combustion and Rusting

2. Answer in short:

Why do we see lightning before thunder?

Why is it important to conserve water?

Why does a compass needle always point north-south?

3. Diagram Practice:

Draw neat and labeled diagrams of:

Human heart

Digestive system

Electric circuit with a bulb, switch, and cell (science notebook)

4. Solve Numericals:

A force of 50 N is applied on an object. If the object moves 5 m in the direction of the force, calculate the work done.

If a machine consumes 1000 J of energy in 20 seconds, find its power.

ENGLISH

i) Write a letter to the Editor of a newspaper expressing your concern about children getting influenced by too much magic and supernatural content on television/OTT platforms. Suggest how such shows can be made more meaningful.

(Follow the correct format: Sender's Address, Date, Receiver's Address, Subject, Salutation, Body, Closing.)

ii) Read the lesson "The Case of the Fifth Word" carefully. Write a short summary of the story in your own words (about 120 words). Highlight the main characters, the problem, how the clues were used, and the ending.

SANSKRIT

1. शब्दरूपाणि - अस्मद् , युष्मद् , तद् , राम , बालिका
2. धातुरूपाणि - गम् , लिख् , पठ्,

DIGITAL LITERACY (DL)

1. Differentiate between compile and interpreter
2. What is python prompt?
3. What do you understand by data types in python give an example for each.
4. What are the different types of operators in python? Give an example for each
5. What are keyword, identifier and literals in python? Explain with suitable example
6. Write short notes about Logical operators.
7. What is the purpose of the following operators in python