

ST. THOMAS SCHOOL, SAHIBABAD
HOLIDAYS' HOME WORK 2025-26
CLASS VIII

INTERDISCIPLINARY THEME- GLOCAL! - "The global village"

Dear Students and Parents,

As the holiday season approaches, it's a great time to relax, spend quality moments with family, and stay engaged with learning in enjoyable and meaningful ways. This homework is intended to help you revisit, think deeply, and discover new ideas—without the pressure. Enjoy the journey, take your time, and come back recharged and ready to continue learning!

Wishing you all a wonderful and relaxing holiday!

Below are some general tips and instructions for completing the holiday homework. Please follow the guidelines enlisted below for the project work.

GENERAL INSTRUCTIONS:

- **Arrange all subject sheets in single folder.**
- **It must have a cover page.**
- **Label file with your name, class, section and roll number and title of your project GLOCAL! - "The global village".**
- **Write "Inter-Disciplinary Project" above the title.**
- **Use colours according to the given colour code.**

ENGLISH	HINDI/ SANSKRIT	MATHEMATICS	SCIENCE	SOCIAL STUDIES	COMPUTER
LIGHT BLUE	LIGHT YELLOW	LIGHT PURPLE	ORANGE	LIGHT GREEN	LIGHT PINK

- **Pages should be arranged in the given sequence:**

S. No.	SUBJECT	PAGE NO.
1.	Index	1
2.	Introduction	2
3.	Acknowledgement	3
4.	Bibliography	Last page of project

- **Arrange your sheets subject wise, after acknowledgement.**
- **Submit your file to the respective class teacher**
- **Submission date is till 10th July.**
- **Revise PT – I syllabus for all subjects.**

SUBJECTS TOPIC

English Create a visually appealing poster on an A-4 sheet that illustrates the concept of 'Sustainable Resource Management'. Your poster should highlight at least three key practices such as water conservation, use of renewable energy, and waste segregation. Use relevant slogans, images, and colours to effectively convey your message.

Hindi

वनों की कटाई के दुष्परिणामों को प्रदर्शित करते हुए एक कोलाज बनाइये तथा इस विषय में जागरूकता फैलाने हेतु १०० से १२० शब्दों में एक अनुच्छेद लिखें।

Sanskrit

‘डिजीभारत’ पाठ पर आधारित कुछ चित्रों का संकलन करके डिजीभारत पर 10 पक्तियाँ संस्कृत में लिखें।

Mathematics

Project work

A. Do the project on A4 size sheets (to be kept in the folder).

Rate of Depletion in Ground Water Resources: -

Availability of groundwater resources in an area depends on number of factors like intensity & period of rainfall, number of existing recharge structures, extraction by consumers for various purposes like industrial applications, drinking/domestic purposes, irrigation etc and therefore, the increase or, depletion rate of the groundwater resources will be different for different areas.

Research and Collect State-wise data (at least 6 states) on annual groundwater exploitation for the years 2020 and 2022. Represent this data in a double bar graph to visualize the trend and identify potential consequences.

B. Solve the following questions in a separate notebook.

1. Verify the following.

a. $-\frac{17}{11} + 37 = 37 + (-\frac{17}{11})$

b. $2 \times (-\frac{5}{8}) = (-\frac{5}{8}) \times 2$

2. Let a, b, c be the three rational numbers, where $a = \frac{2}{5}$, $b = \frac{4}{3}$ and $c = \frac{3}{6}$. Verify the associative property of addition and multiplication.

3. Solve by using suitable rearrangement: $-\frac{4}{3} + \frac{3}{5} + (-\frac{2}{3}) + (-\frac{7}{5})$

4. Find the additive inverse of the following rational numbers.

5. Find the multiplicative inverse of the following rational numbers.

a. $\frac{6}{11}$

b. $-\frac{4}{9}$

c. $\frac{5}{-13}$

6. Write four rational numbers between $\frac{1}{3}$ and $\frac{1}{2}$.

7. Find the square root of the following perfect square numbers using repeated subtraction method.

a. 64

b. 169

c. 225

8. Find the square root of the following perfect square numbers using prime factorization method.

a. 64

b. 343

c. 225

9. Find the square root of the following perfect square numbers using long division method.

a. 12544

b. 9801

c. 1024

10. Squares of which number 89, 237, 243, 42, 45 will end with digit 1?

11. Which of the following triplets are Pythagorean?

i. 14, 48, 50

ii. 18, 79, 82

12. Find the least square number which is divisible by each of the numbers 4 and 10.

13. A ladder 10 m long rests against a vertical wall. If the foot of the ladder is 6 m away from the wall and the ladder just reaches the top of the wall, how high is the wall?

14. Express 169 as the sum of odd numbers.

15. Find the smallest whole number from which 5408 should be multiplied in order to obtain a perfect square number. Also, find out the square root of the square number so obtained.

16. Using prime factorization, find the cube root of 5832.
17. Find the smallest number by which 1323 may be multiplied so that the product is a perfect cube.
18. What is the smallest number by which 2916 should be divided so that the quotient is a perfect cube?
19. Find the volume of a cube whose surface area is 384 m^2 .
20. Three cubes of sides 3cm, 4cm and 5 cm respectively are melted to form a new cube. What is the side of the new cube?

Science

Forest Guardians

Write strategies that can be implemented to manage and conserve forests sustainably. How do these practices impact the environment and local communities?

Social Science

Topic: Sustainable Resource Management

- **Project:** Prepare a comprehensive Water report to identify areas of water conservation and efficiency in your household, school, or community.
- **Project Components:** Conduct a survey to gather information on water usage patterns; identify and document leaks/inefficiencies if any; and provide recommendations for water conservation and efficiency.
- **Report Preparation:** Prepare a comprehensive report detailing findings and recommendations.
- Identify opportunities for water savings and highlight the environmental benefits of water conservation.

Computer

Open MS Word and write a short note on the topic "How Sustainable Resource Management is related to Computer Networking". Format the document as per the following instructions:

Instructions:

- i) **Title:** Use bold, font size 16, and centre align the title – Sustainable Resource Management in Computer Networking
- ii) **Content:** Write a short paragraph (80–100 words) explaining how computer networking can support sustainability. Include points like energy-efficient networking devices, cloud computing, virtualization, and e-waste management.

iii) **Formatting:**

- Font: Calibri or Times New Roman, size 12
- Line spacing: 1.5
- Justify the paragraph
- Add bullets or bold for key terms if needed

Take a printout and paste it in light pink colour sheet.

G. K

Paste the pictures of 5 environmentalists on A4 sheets and write a short note about their contribution in the management of sustainable resources.

Value Education

Paste or draw pictures of any 5 ways to conserve energy in our homes on an A4 sheet and write a short note on how each of these contribute to conserve energy.

Art and Craft Make a modern art painting on A3 size canvas board using acrylic colours.



Music

1. Write 20 lines of any famous musician in the Music notebook.
2. Learn School Anthem and National Anthem.
3. Draw a picture of any music instrument.