ALL SAINTS' HIGH SCHOOL

SUMMER HOLIDAY HOMEWORK

Class- IX (Children promoted from Class IX to Class X)

Academic Year – 2024 - 2025

Dear parent,

Holiday Homework allows students to reinforce learning, maintain academic momentum, and develop crucial skills like independent study and time management. It is well designed to promote responsibility and enhance creativity and critical thinking. Kindly encourage your child to spend at least two hours a day to explore different subjects during the holidays.

తెలుగు

I LANGUAGE TELUGU

1. పర్యావరణ పరిరక్షణ గురించి పోస్టర్ తయారు చేయండి.

2. చదువు ప్రాముఖ్యతను తెలుపుతూ కరపత్రం తయారు చేయండి.

3. మీకు నచ్చిన ఒక నీతి కథను చిత్రాల ఆధారంగా రాయండి.

4. మీ పాఠశాలలో జరిగే వార్షికోత్సవానికి విద్యాశాఖాధికారిని ఆహ్వానిస్తూ ఆహ్వాన పత్రం తయారు చేయండి.

II LANGUAGE TELUGU

1. స్వచ్ఛభారత్ గురించి పోస్టర్ తయారు చేయండి.

2. మీకు నచ్చిన నీతి కథను చిత్రాల ఆధారంగా రాయండి.

3. ఉపాధ్యాయ దినోత్సవం రోజు ఉపాధ్యాయులను ఆహ్వానిస్తూ ఆహ్వాన పత్రం తయారు చేయండి.

हिंदी

I LANGUAGE HINDI

I) पाठ - 1 - सुन्दर भारत : कवि परिचय, सारांश, प्रश्नोत्तर. और भाषा की बात।

II) पाठ - 2 - नेताजी का चश्मा : लेखक परिचय, प्रश्नोत्तर और भाषा की बात।

III) अपनी कॉलोनी में सफाई करवाने के लिए नगर निगम अधिकारी को पत्र लिखिए।

IV) 'पर्यावरण और प्रदूषण 'पर निबंध लिखिए।

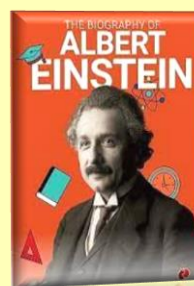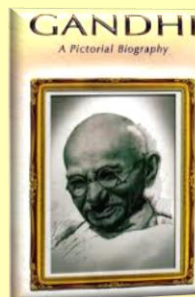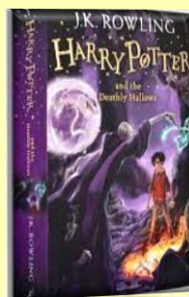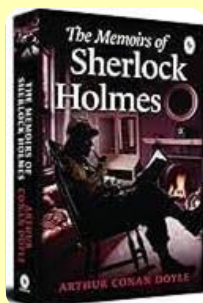**Note - Write neatly on A-4 size papers and submit on 12th June, 2025.**

II LANGUAGE HINDI

I) पाठ - 1 - बरसते बादल : कवि परिचय, सारांश, प्रश्नोत्तर. और भाषा की बात ।

II) पाठ - 2 – ईदगाह : लेखक परिचय, प्रश्नोत्तर और भाषा की बात ।

III) आपने मोहल्ले में सफाई करवाने के लिए नगर निगम अधिकारी को पत्र लिखिए।

IV) 'विद्यार्थी अनुशासन' विषय पर निबंध लिखिए।

Note - Write neatly on A-4 size papers and submit on 12th June, 2025.

ENGLISH

1. One page Handwriting: Write a proverb daily in the Handwriting book.

2. Read a novel or a biography and write a book review.

3. Read lessons of Unit 3 and 4 (Class X Reader). Select 15 new words and write their spellings 10 times each. Find their meanings, synonyms and antonyms and present them in a creative way.

4. **Unlock Your Creativity:**

   Write a creative story imagining that you travel through time to a past era (Ancient Civilizations or the Era of Dinosaurs) or a future world (Year 3000 with flying cities, AI-controlled societies, space colonies) and describe your experiences.

   i) Plan Your Story Structure:

   Beginning: Introduce the main characters, setting, and the initial conflict or problem.

   Middle : Develop the plot with rising action, including key events and turning points.

   End   : Resolve the conflict or problem, providing a satisfying conclusion.

   ii) Develop Your Characters:

   * Main Characters: Who are the heroes and heroines? Describe their personalities, background, and motivation.

iii) Design a captivating cover:

 * Include the title of your story.

 * Write your name as the author.

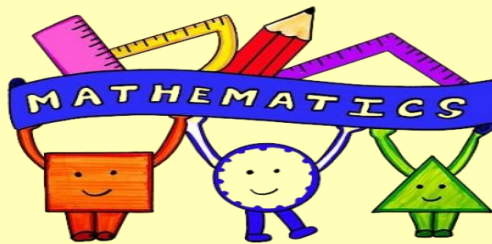 * Create an illustration that reflects the theme or main event of your story.

iv). Write engaging dialogues

v). Use detailed descriptions to create a vivid picture of where the story takes place.

vi) . Ensure Originality: Create your own unique story and characters.

vii). Draw or include illustrations for important scenes to enhance the story.

Note: Activity 2, 3 & 4 to be done in A4 size sheets.

DAY-1

- Learn and write multiplication tables from 1 to 10.
- Find the H.C.F. of following by using division algorithm.
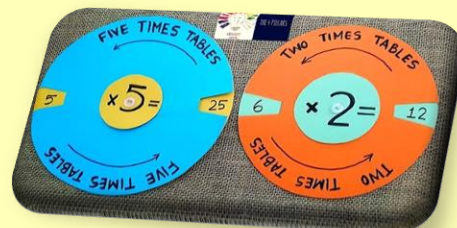 (a) 36 and 48 (b) 26 and 91 (c) 60 and 120   (d) 72 and 96

Day-2

- Learn and write 11th and 12th multiplication table.
- Show that every positive odd integer is of the form $(4q + 1)$ or $(4q + 3)$, where q is some integer.
- Show that the square of any positive integer is of form $5m$ or $5m+1$ or $5m+4$ where 'm' is a whole number.

Day-3

- Learn and write 13th and 14th multiplication table.
- Write all the factors of the following numbers : (a) 24 (b) 15 (c) 21 (d) 27 (e) 12 (f) 20 (g) 90 (h) 144

Day-4

- Learn and write 15th and 16th multiplication table.
- Express each number as a product of its prime factors: (a) 140 (b) 156 (c) 360 (d) 3825 (e) 5005
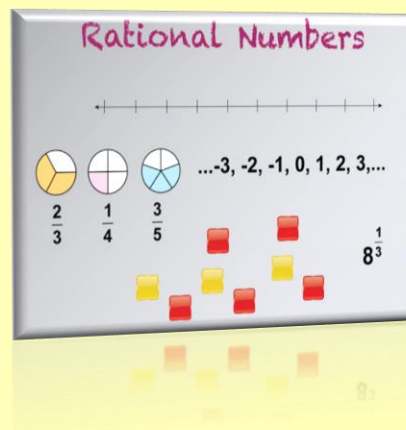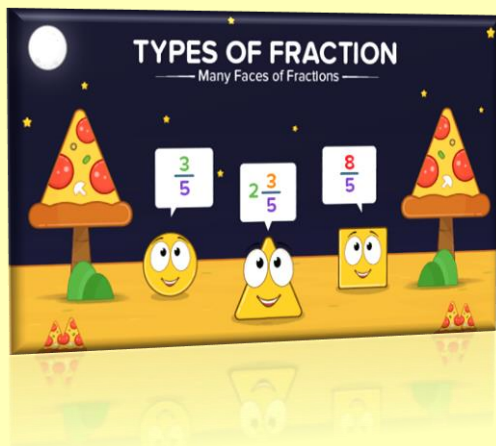

Day-5

- Learn and write 17th and 18th multiplication table.

- Find the LCM and HCF of the following integers by applying the prime factorization method.

  (a) 90 and 144 (b) 96 and 404 (c) 36 and 48 (d) 6, 72 and 120

Day-6

- Learn and write 19th and 20th multiplication table.
- Write the decimal form of the following rational numbers (a) $\frac{26}{25}$ (b) $\frac{27}{80}$ (c) $\frac{5}{11}$ (d) $2\frac{1}{15}$

  (e) $\frac{6}{13}$

TYPES OF FRACTION
— Many Faces of Fractions —

$\frac{3}{5}$ $2\frac{3}{5}$ $\frac{8}{5}$

Rational Numbers

...-3, -2, -1, 0, 1, 2, 3,...

$\frac{2}{3}$ $\frac{1}{4}$ $\frac{3}{5}$

$8\frac{1}{3}$

Day-7

- Learn and write 6th to 10th multiplication table.
- Write the following decimal as fraction: (a) 1.2 (b) 502.34 (c) $0.\overline{72}$ (d) $9.\overline{203}$

  (e) $10.3\overline{56}$

Day-8

- Learn and write 11th to 15th multiplication table.
- Simplify: (a) $(2 - \sqrt{3})^2$ (b) $(\sqrt{2} + \sqrt{3})^2$ (c) $(\sqrt{2} - \sqrt{3})(\sqrt{2} + \sqrt{3})$

  (d) $(\sqrt{2} - \sqrt{3})^2$

Day-9

- Learn and write 16th to 20th multiplication table.
- Prove that the following are irrational: (a) $\sqrt{3}$ (b) $4\sqrt{5}$ (c) $\sqrt{2} + 6$

  (d) $\sqrt{2} - \sqrt{5}$

Day-10

- Learn and write 21st multiplication table.
- Convert the following into logarithmic form: (a) $x^{25} = z$ (b) $5^4 = 625$

  (c) $7^3 = 343$ (d) $3^y = 25$

- Convert the following logarithms into exponential form: (a) $\log_{10} x = 100$

  (b) $\log_a x = 12$ (c) $5 = \log_2 32$ (d) $\log_2 3^5 = x$

Day-11

- Learn and write 22nd multiplication table.
- Find value of : (a) $\log_4 64$ (b) $\log_{125} 5$ (c) $\log_{\sqrt{b}} b$ (d) $\log_{14} 1$ (e) $\log_{10} 0.0001$
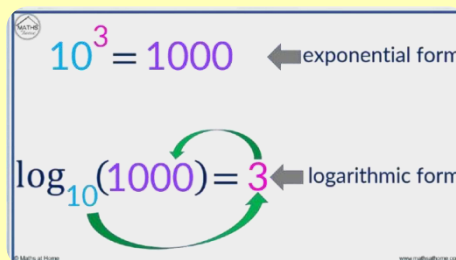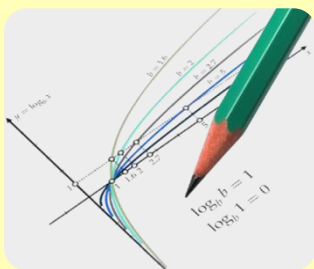
Day-12

- Learn and write 23rd multiplication table.
- Expand the following: (a) $\log 200$ (b) $\log\frac{125}{64}$ (c) $\log\frac{x^3 y^2}{z}$

- Express as single logarithm: (a) $2 \log x + 3 \log y - 4 \log z$
  (b) $5 \log 3 - \log 2 - 3 \log 11 - 4 \log 5$

Day-13

- Learn and write 24th multiplication table.
- Solve $3^x = 5^{x-2}$.
- If x2 + y2 = 25xy, then prove that 2 log(x + y) = 3log3 + log x + log y.
- If x2 + y2 = 27xy, then prove that 2 log(x - y) = 2 log5 + log x + log y.

DAY-14

- Learn and write 25th multiplication table.
- If $\log(\frac{x+y}{3}) = \frac{1}{2} \log(x + y)$ then find the value of $\frac{x}{y} + \frac{y}{x}$.
- If $(2.3)x = (0.23)y = 1000$, then find the value of $\frac{1}{x} - \frac{1}{y}$.
- If 2x+1 = 31-x then find the value of x.
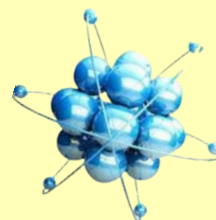 Note : Kindly write math holiday home work in A4 size papers and submit on the re-opening day.

Create an innovative scientific working model that would benefit society and prepare a report on it.
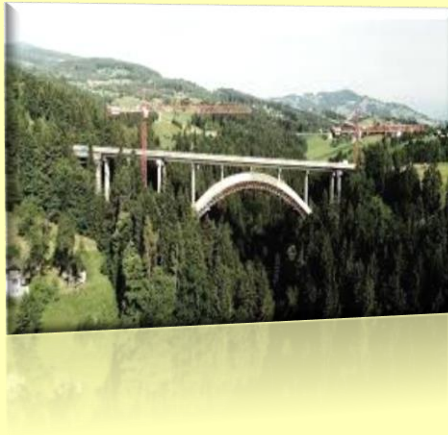**Instructions:**
1. Best models will be selected for:

* Inspire Manak

* School Science Exhibition

* Other competitions

2. Students can use the following categories for reference.

9 A - Construction Challenges for bridges in hilly areas.
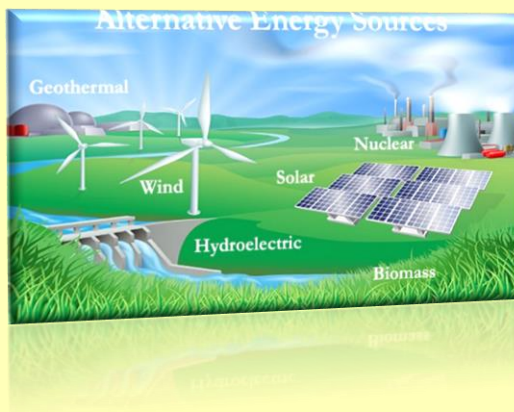

9 B - Renewable Sources of Energy

9 C - Waste Management - Plastic Recycling

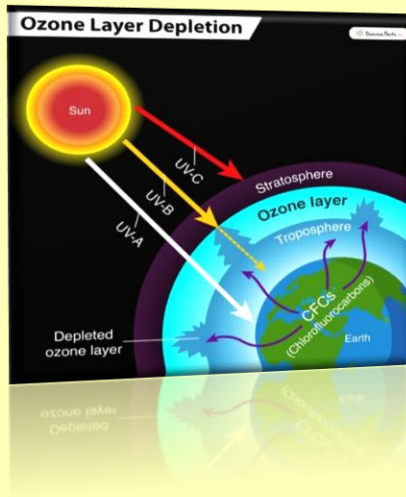**9 D - Environmental Issues and Concerns**

9 E - Alternative Sources of Electrical Energy
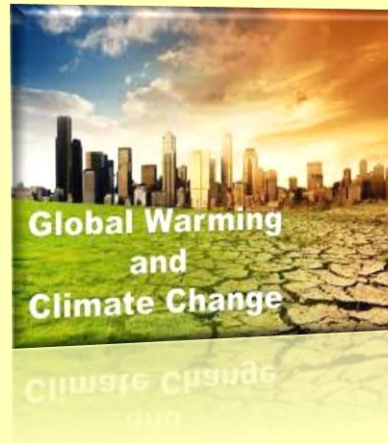
Biology

1. Collect information on 5 gastrointestinal problems that are common these days. Include symptoms, cure and prevention.   (To be done in A4 size papers)

2. Prepare Science (Biology) working model on any of the following topics.

9 A - Ozone Depletion

9 B - Climate Change and Global Warming

9 C - Future Cities for Sustainable Development

9 D - Water Management

9 E - Disaster Management

1. **Complete the Map Book of Class X.**

2. **Collect information about 5 Welfare Programmes undertaken by the Central Government.**

   Include:

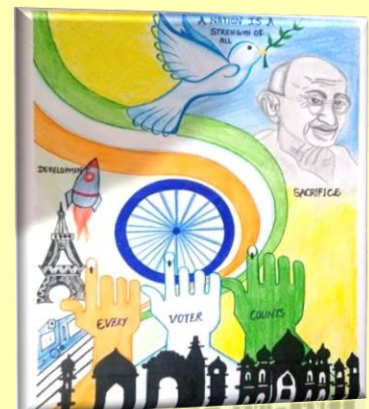   a) **Highlights of the programmes**

   b) **Who are the beneficiaries?**

   c) **Are the programmes successful? Why / Why not?**

   d) **Paste relevant pictures.**

3. **Create a poster on 'India - My Country'**

Note: 2 & 3 to be done in A4 size sheets.