SUMMER HOLIDAYS

HOMEWORK

CLASS VII

2025-2026

Theme: Shine With Solar

LET THE SUN SHINE THROUGH YOUR CHOICES

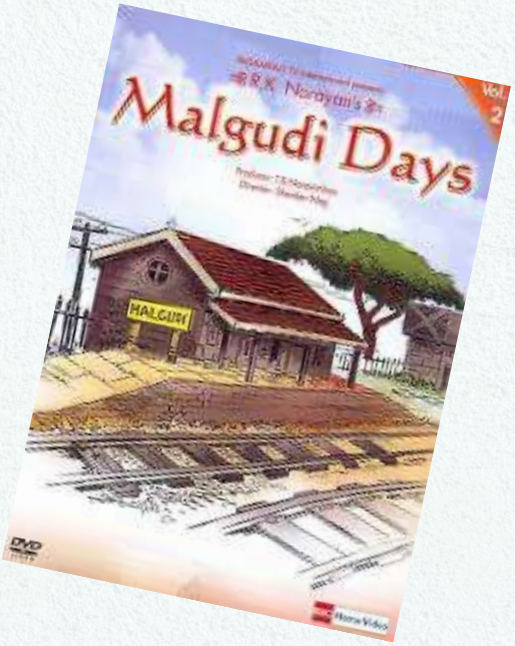
English

Q1. Design a poster with a creative slogan promoting solar energy. Include a short 3-line caption in English describing how solar power helps the Earth "shine."

Q2. Read the novel Malgudi Days by R.K. Narayan and write a character sketch of your favourite character from the stories.
Mention the character's personality traits, role in the story, actions, and why you like the character.

Q3. Project Work Based on the Chapter: Fight Manju Fight
Design an inspiring scrapbook on the theme "Never Give Up", based on the story Fight Manju Fight. Include:

- A brief summary of Manju's journey and challenges
- Motivational quotes that reflect her determination
- Your personal reflection: What did you learn from Manju's story?
- Creative illustrations or visuals



Social Science

Q1. Explain how solar energy helps to reduce pollution and conserve natural resources. Give at least two real-life examples.

Q2. Draw, colour and label a diagram showing all components of the environment in one scene (e.g., a mountain with trees, river, animals, people, and houses).A dd slogans too.

Q3. Design an advertisement promoting a democratic value (e.g., voting, gender equality, clean environment)

Q4. Create a collage showcasing prominent temples of South India. Include images or drawings of each temple and write one unique architectural or cultural feature for each. Lable the temples . Clearly with their names and locations.

Note: All this work will be assessed as part of the internal assessment.

Science

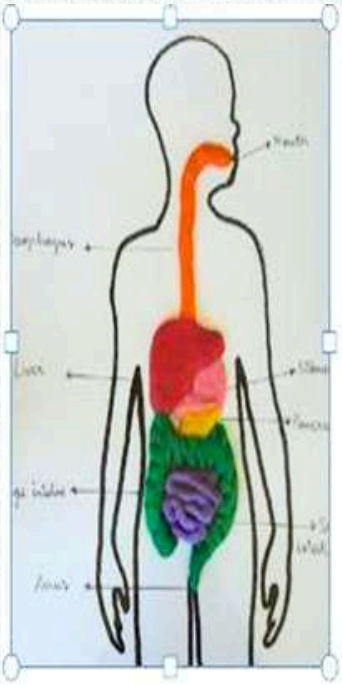
Q1. **'Global warming begins at home'**

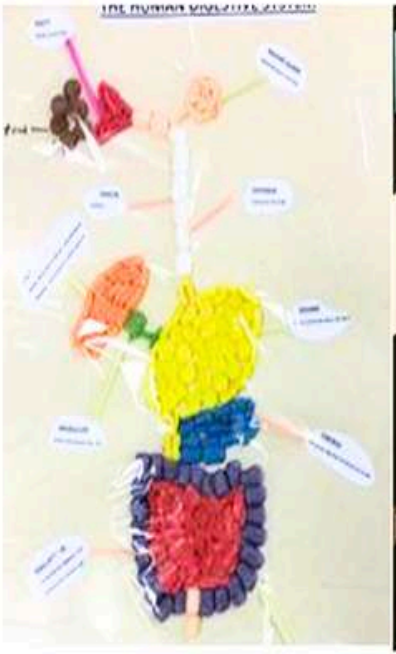
Justify this statement by making a project report on ' How do certain human activities contribute to Global warming'. And how clean and affordable energy plays an important role to control this major threat to the environment. Illustrate your project with meaningful pictures and slogans.

Q2. **BEST OUT OF WASTE**

Make a model of digestive system using clay, thread,stones, waste papers or any waste material available to you.

Some ideas are given below:





Mathematics

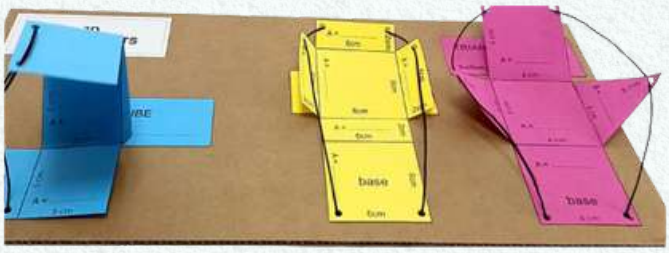
Q1. *3-Dimensional Pull-Up Nets*

Make pull-up nets of any three different 3D shapes. Count the number of faces, vertices and edges of the 3D object and verify The Euler's formula. Record your observations in the table given below.

Euler's Formula:

The number of faces (F) plus the number of vertices (V) minus the number of edges (E) is always equal to 2 and is given by F + V - E = 2.

- Faces: The flat surfaces of the 3D shape.
- Vertices: The points where the edges meet.
- Edges: The lines where the faces meet.



SNO.	Name of shape	F	V	E	$F + V - E$

Q2. SHINE WITH SOLAR

1) If a solar panel generates 200 watts per hour and receives 6 hours of sunlight per day, how much energy (in kWh) does it produce in a week?

2) Your house needs 6 kWh of electricity per day. How many such panels would you need to meet this need?

3) If electricity costs ₹7 per unit (1 kWh), how much money can your family save per month using solar energy?

4) Create a bar graph depicting the solar energy used in five different countries.

Assignment 1
Mathematics

I. Solve the Following

1. Fill in the blanks:

a) The reciprocal of $\frac{3}{5}$ is ___

b) $-\frac{2}{3} + 0 =$ ___

c) The additive inverse of $-\frac{7}{9}$ is ___

d) $0 \div (-\frac{3}{4}) =$ ___

2. True or False:

a) Every rational number is a whole number.
b) The product of two rational numbers is always a rational number.
c) 0 has a reciprocal.
d) The sum of a rational number and its additive inverse is zero.

3. Represent the following rational numbers on a number line:

a) $\frac{2}{5}$

b) $-\frac{3}{4}$

c) –1
d) 0

4. Write any 3 rational numbers between the following:

a) 1 and 2
b) –1 and 0
c) –2 and –1

5. Simplify the following:

a) $(-\frac{3}{5}) + (\frac{4}{15})$
b) $(\frac{7}{12}) - (\frac{2}{3})$
c) $(-\frac{2}{3}) \times (\frac{9}{4})$
d) $(-\frac{5}{6}) \div (\frac{5}{12})$

6. Arrange the following rational numbers in ascending order:

a) $\frac{2}{3}, -\frac{1}{4}, \frac{5}{6}, -\frac{3}{5}$

b) $-\frac{7}{8}, -\frac{1}{2}, -\frac{3}{4}, -\frac{1}{4}$

7. Aman walks $\frac{3}{4}$ km east and then $\frac{2}{3}$ km west. What is his final position from the starting point?

8. Ravi had $\frac{5}{6}$ of a chocolate bar. He gave $\frac{1}{4}$ to his friend. How much is left with him?

9. A water tank is filled with $\frac{2}{3}$ of its capacity. If $\frac{1}{5}$ of the tank is emptied, what part of the tank is still filled?

10. Is zero a rational number? If yes, write two different representations.

11. Find a rational number which is its own reciprocal.

12. What is the value of $(-\frac{3}{4}) + (\frac{3}{4}) + (\frac{2}{5}) - (\frac{7}{5})$? Show all steps

Assignment 2
Mathematics

I. Solve the Following

1. Simplify the following expressions:

a)
(3/4 – 5/8) + (–7/12)

b)
(–2/3 × 3/5) ÷ (4/15)

c)
(–7/9 + 5/6) – (1/18)

2. Solve using properties of rational numbers:

a)
2/5 × (–3/4 + 1/2)

b)
(–1/3 + –2/3) + 4/3

3. Word Problems

a) Renu bought 2/3 kg of rice, then gave away 3/4 of it to her friend. How much rice is left with her?

b) A rope is 7/2 meters long. It is cut into 1/4 meter long pieces. How many pieces are made?

c) A water tank is 3/5 full. After using 1/4 of its total capacity, what fraction of the tank is still filled?

4. Find the value of:

a)
(–3/5 ÷ 6/7) × (–7/4)

b)
(5/6 – 2/3) ÷ (–1/2)

5. True or False (Justify your answers):

a) The product of two negative rational numbers is always positive.
b) The division of a rational number by itself is always 1.
c) Rational numbers are not closed under division.
d) Multiplying any rational number by 0 gives 1.

6. Find the rational number x such that:
3/4 + x = 1/6

7. Find the value of:
(2/3 – 5/9) × (6/7 ÷ –3/14)

HINDI

१ सौर उर्जा के महत्व पर एक कविता लिखे | इसमें आप सूरज की किरणों सौर पेनल और उर्जा के स्रोत के रूप में सूरज के योगदान को वर्णित कर सकते हैं |
कविता में यह दिखाने का प्रयास करें कि किस तरह सौर उर्जा पर्यावरण को बचाने में मदद करती है और यह हमारी उर्जा के ज़रूरतों को पूरा कर सकती है |
{कार्य ए-४ साइज़ शीट पर कीजिए}

२- 'एवरेस्ट की चुनौती ' इस विषय के अंतर्गत परियोजना कार्य करने के लिए निम्नलिखित जानकारी एकत्रित करते हुए चित्र सहित स्क्रेपबुक का निर्माण करें -

क.एवरेस्ट के बारे में जानकारी (भूमिका , स्थान ,ऊँचाई,विभन्न नाम. प्रथम आरोहण कब और किसके द्वारा
ख. पर्वतारोहण के लिए आवश्यक सामग्री
ग. मार्ग में आने वाली चुनौतियाँ
घ .एवरेस्ट पर विजय प्राप्त करने वाले भारतीय पर्वतरोहियों के बारे में संक्षिप्त जानकारी |

३ - कहानी 'बातूनी ' को नाटक रूप में लिखिए |
{कार्य ए-४ साइज़ शीट पर करें }

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संस्कृत

1. "अहिंसा परमोधर्म: " विषय पर एक अनुच्छेद लिखो।

2. दिए गए धातु रूपों को निम्नलिखित लकारों में लिखिए
धातु :-
लिख्, क्रीड् वद् और दृश्।
लकार:- (लट् लकार, लङ् लकार , लृट लकार और लोट् लकार।)

3. क्रियाकलाप :-
सूर्यदेव (☀) का चित्र बनाते हुए बारह (12) सूर्य नमस्कार मंत्रो को लिखो!

नोट- सभी विद्यार्थी ग्रीष्मकालीन अवकाश कार्य को ए-4 शीट पर करेंगे।

A little learning each day keeps the doubts away

happy holidays!