Class VIII Holiday Homework 2025-26

ENGLISH

- Read ***"The Kid who came from Space"*** by Ross Welford.
- Create a ***bookmark*** on any quote that you find inspiring and motivational.
- Prepare a ***tabular representation*** of all 'twelve tenses' with rules and examples on an **A3 Size Sheet**.
- Write ***twenty-five palindromes*** (A palindrome is a word that reads the same backward or forward. **E.g.** MADAM) with their meanings on an **A4 Size Sheet**.

English Exhibition Holiday's Homework

Roll No. 1-14

Bio-Sketch of Quantum Pioneers (Physics)

Research a quantum physics pioneer, such as Max Planck, Albert Einstein, or Niels Bohr, and write a brief bio-sketch highlighting their early life, major contributions to quantum physics, and lasting impact on science. To be done on an A-3 Size Sheet.

Roll No. 15-28

Short story on "The World in the Year 2125" (Science Fiction)

Imagine Earth in the year 2125: create a short story (1-3 pages long) exploring futuristic technology, society, or adventures, using your imagination to depict a world shaped by science and innovation. To be done on an A-4 Size Sheet and needs to be submitted in a form of a file with a cover page and title of the story.

Roll No. 29-43

Book Review on any Science Fiction

Read a science fiction book of your choice, then write a review summarizing its plot, analyzing its themes and characters, evaluating the writing style, and sharing your personal opinion on its impact and readability. (Examples of Sci-Fi books:- The Wind on Haunted Hill by Ruskin Bond, How the Earth got its Beauty by Sudha Murthy, The Kid who came from Space by Ross Welford , The Wild Robot by Peter Brown, A Wrinkle in Time by Madeleine L'Engle, The Ivory Key by Akshaya Raman, Zita the Spacegirl by Ben Hatke, etc) To be done on an A-4 Size Sheet and needs to be submitted in a form of a file with a cover page and title of the story.

Roll No. 44 onwards

Comic-Strip Making related to Science Fiction

Design a 4–6 panel comic strip that narrates an imaginative science fiction story, incorporating futuristic themes like space exploration, advanced technology, or alien encounters. To be done on an A-3 Size Sheet.

HINDI

- Roll no (**अनुक्रमांक**) 1 **से** 12

1 **प्राचीन भारत के** 7 **मुख्य वैज्ञानिकों के नाम और उनके अविष्कार चित्र सहित** |
(A3 size sheet)

- Roll no (**अनुक्रमांक**) 13 **से** 23

2 **आधुनिक भारत के** 7**वैज्ञानिकों के नाम और उनके अविष्कार चित्र सहित**
(A3 size sheet)

- Roll no (**अनुक्रमांक**) 24 **से** 41

3 **किसी एक विषय में वैज्ञानिक की खोज को मॉडल के रूप में दर्शाइए।**

1 **गणित**

2 **नक्षत्र विज्ञान**

3 **चिकित्सा विज्ञान**

4 **आयुर्वेद**

5 **योग**

6 **विज्ञान**

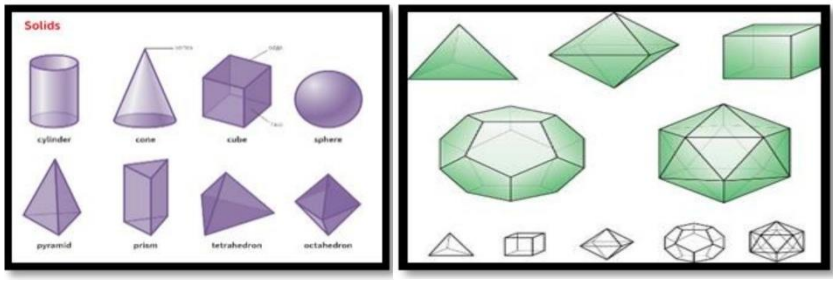
- Roll no (**अनुक्रमांक**) 42**से** 58

4 **हमारे ऋषि वैज्ञानिकों के नाम और उनकी उपलब्धियाँ फ्लो चार्ट में दिखाए**

MATHS

1: PROJECT ON 3 DIMENSIONAL SHAPES

The project must be completed in your respective activity files. Please adhere to the guidelines provided to finish your project.



1. Page 1- Explain solid shapes using examples. What do the terms "faces," "edges," and "vertices" in 3D shapes mean? State examples of solid shapes around us.

2. Page2- Draw well-labelled drawings of a Cylinder, Triangular Prism, Trapezoidal Prism tetrahedron, square pyramid, and Hexahedron on the file's blank side. Complete the table below and verify the Euler's Formula for the shapes on the ruled side of this page.

Shape	Number of vertices (V)	No of edges (E)	No of faces (F)	Euler's Formula (F+V-E=2)
Cylinder				
Square Pyramid				
Triangular Prism				
Trapezoidal Prism				
Tetrahedron				
Hexahedron				

II: COOPERATIVES

A cooperative is an organization formed by a group of people who come together to meet their common needs and goals. It is based on values like self-help, equality, and teamwork. In a cooperative, every member has an equal say in decisions, and the profits are shared fairly among all members.

Cooperatives and mathematics are closely connected in many ways. In a cooperative, members often share profits, resources, and responsibilities equally, which involves mathematical concepts like division, percentages, and ratios. Budgeting, keeping financial records, and calculating savings or expenses all require basic math skills. Even making fair decisions and voting in a cooperative can involve understanding numbers and statistics. This shows how math helps cooperatives run smoothly and fairly, making it an important part of teamwork and shared success.

To create awareness among the students of our school in the following work is allotted to all the students according to their roll numbers

Roll Number	Work Assigned
1 - 12	Present data on the number of cooperatives in India, their growth over the years, and their economic impact.Also calculate their growth percentages and create bar graphs to visualize the data on a **chart paper.**
13- 24	Make unique handicraft items such as (table mats, wall hangings, home decor items) inspired by geometric patterns, blending creativity with mathematical elegance.
25-36	Prepare board games related to the current curriculum.
37- 48	Make mathematical models related to your curriculum.

49 onwards	Collect data on the percentage of cooperatives per sector in India and represent it on a pie chart on an **A3 size sheet** (make your pie chart 3d using waste material, decorative items ,cotton etc)

SCIENCE

1 Revise the following Chapters:

a) Microorganisms:- friends or foes
b) Force and pressure

[For unit test to be held after vacation]

ART INTEGRATION:

2. Illustrate the concept map of 'Sources of Energy' creatively on A-4 size sheet only.
3. Design a vaccination card, key considerations revolve around readability, accuracy, and ease of use. The card should clearly display the recipient's name, date of birth, vaccination dates and types, and potentially other relevant information like batch numbers or location of vaccination. The design should also facilitate efficient data collection and storage, for physical cards .
4. Make a "Poster" on preventive measures to be taken for the following situations

a) Before earthquake
b) During earthquake
c) After earthquake.

5. PROJECT: Under '**EK BHARAT SHRESHTHA BHARAT'** Programme , the students are supposed to research on any one aspect from the following as per their roll nos.(pertaining to scientific knowledge and principles) of SIKKIM.
The students with Roll no (1-25) need to prepare a brochure on their assigned topic on A-4 size sheet.
The students with Roll no (26-Last) need to prepare a Power Point Presentation (Ppt) on their assigned topic.

Roll No. 1-5 and 26-30
Topic : Soil- Mineral Composition, total landmass, Area under vegetation, Total Forest area, Types of Soil.

Roll No. 6-10 and 31-35
Topic :Festivals and costumes

Roll No.11-15 and 36-40
Topic Flora and Fauna

Roll No. 16-20 and 41-45
Topic Food and Culture- Eating habits, indigenous crops, Festivals, Language, Dance forms

Roll No. 21-25 and 46-last

Topic Local Tribes and their traditions

6. Exhibition Work

The 2025 International Year of Quantum Science and Technology (IYQ) recognizes 100 years since the initial development of quantum mechanics.. Our aim is to highlight the contributions of quantum science and practical applications of quantum technology. The following are the topics and related innovative strategies allotted according to roll nos.

Roll No.1-10
TOPIC :QUANTUM SCIENCE IN MEDICAL APPLICATION /QUANTUM
INNOVATIVE ACTIVITIES :
COMPUTING IN MEDICAL IMAGING
NEWSLETTER/
JOURNAL / AUGMENT REALITY MODEL

Roll No.11-20
TOPIC :BIOGRAPHY CORNER OF QUANTUM PIONEERS
INNOVATIVE ACTIVITIES :
INTRODUCTION BOARD(including Panoramic display/ infographics)

Roll No.21-30
TOPIC :QUANTUM SENSORS & COMMUNICATION (quantum enhanced sensors network for secure communication)
INNOVATIVE ACTIVITIES :
Working model/ Gamification/
Information flash cards

Roll No.31-40
TOPIC :QUANTUM METROLOGY (NAVIGATION)
INNOVATIVE ACTIVITIES :
JIGSAW PUZZLE

Roll No.41-50
TOPIC :INTRODUCTION OF QUANTUM SCIENCE
INNOVATIVE ACTIVITIES :
PAPER PLATE MODEL /DESIGNER T SHIRT PRINTING

Roll No.51-60
TOPIC :ASTROPHYSICS /MATERIAL SCIENCE
INNOVATIVE ACTIVITIES :
POWER POINT PRESENTATION/ STANDING CHARTS

Note*:

Holiday homework will be expressed for internal assessment or subject enrichment activity.
More weightage will be given to innovative work/ research based work/ original work/ use of eco friendly materials making or wherever required

SST

*** Cooperatives play Vital role in sustainable development Goals***

Cooperatives play a multifaceted role in achieving the Sustainable Development Goals (SDGs) by promoting economic, social, and environmental sustainability. Their unique structure allows them to address local needs while contributing to global goals, fostering a more inclusive andequitable society

Students would make a ***3d poster* or a poster on A3 size sheet** on the topics allocated according to their roll numbers

1. Climate change and Cooperative **(Roll no 1-10)**

2. Environmental sustainability and Cooperative **(Roll no 11-20)**

3. Social Inclusion and Poverty Reduction and Cooperative **(Roll no 21-30)**

4. Food Security and Zero Hunger and Cooperative **(Roll no 31-40)**

5. Innovation and Technological Advancement and Cooperative **(Roll no 41-50)**

6. Local Development and Community Building and Cooperative **(Roll no 51- last roll no)**

Project Based Chapters

Ch 9 Establishment of companies rule in India

Ch 22 Safeguarding the Marginalised

Prepare a scrapbook containing at least 10 pages on the following allocated topic according your roll number:

Collect pictures and information from newspaper, magazines, internet etc.

Roll no 1-10 Conquest of Bengal

Note: refer to page number 104-105 for reference

Roll no 11-20 Anglo Mysore wars

Note: refer to page number 105-107 for reference

Roll no 21-30 Anglo Maratha wars

Note: refer to page number 107 for reference

Roll no 31-40 Programmes launched by the Indian government for the upliftment of weaker sections of the society

Note: refer to page number 257-258 for reference

Roll no 41-last Roll No. Three cleanest cities of India under the Swachh Bharat Abhiyan

Note: refer to page number 257 for reference

All the students to revise ch1, 8 &16 for upcoming Unit test and complete all the assignments.

SANSKRIT

पाठ्य पुस्तक सुरभि से

1-चार चित्र (सुरभि) 2-चार पत्र (सुरभि) 3-चार अपठित गद्यांश

2-धातु पठ, चल, नम वद, धाव के प्रत्येक धातु के 5 वाक्य प्रयोग

3-द्वितीया, तृतीया, चतुर्थी, पंचमी , षष्ठी , सप्तमी विभक्ति के उपपद शब्दों के प्रयोग लेखन । हाथ का आरव बनाकर लिखे ।

4- **सभी छात्र रोल न. के अनुसार वैदिक फिजिक्स पर निम्न कार्य प्रदर्शनी के लिए कार्य करेंगे**

1. सत्त्व, रजस्, तमस् - तीन गुणों पर चार्ट/लेख (गीता 14.5, 14.20)चार्ट बनाएं ।

तीनों गुणों की परिभाषा (संबंधित श्लोक (गीता 14.5 और 14.20) का उल्लेख

रोल नंबर: 1-10

उदाहरण: गीता 14.5:"सत्त्वं रजस्तम इति गुणाः प्रकृतिसम्भवाः..."

2. अणु व परमाणु की संरचना (गीता 8.9)

रोल नंबर: 11-20

चार्ट में अणु और परमाणु की वैदिक अवधारणा

गीता- 8.9 "कविं पुराणमनुशासितारम..."

3. प्रकृति और पुरुष की रचना (गीता 3.27, 13.20)

रोल नंबर: 21-30

चार्ट में प्रकृति (भौतिक जगत की रचयिता) और पुरुष (चेतना/आत्मा)

गीता 13.20: "प्रकृतिं पुरुषं चैव..."

गीता 3.27: "प्रकृतेः क्रियमाणानि..."

4. पंचमहाभूत (भूमि, जल, अग्नि, वायु, आकाश) पर चार्ट व चित्र

रोल नंबर: 30-40

चार्ट में: पांच महाभूतों के नाम, पंचमहाभूतों का चित्रात्मक प्रस्तुतीकरण (प्राकृतिक दृश्यों के साथ)

वैदिक(तैत्तिरीय उपनिषद आदि से)

5. वैदिक फिजिक्स - क्या समझते हैं? (A3 शीट पर)

रोल नंबर: 40-50

वैदिक विज्ञान की प्रमुख अवधारणाएँ (ऋषियों द्वारा दी गई ऊर्जा, पदार्थ, गति आदि की समझ)

ऋग्वेद, उपनिषदों से उद्धरण

सृष्टि की प्रक्रिया, ब्रह्मांड की गति, प्रकाश का स्रोत

आधुनिक फिजिक्स से तुलनात्मक विश्लेषण (जैसे क्वांटम सिद्धांत)

6. ब्रह्मांड की उत्पत्ति, प्रकाश और ऊर्जा की अवधारणा

रोल नंबर: 51-60

चार्ट में: वैदिक ब्रह्मांड की उत्पत्ति (नासदीय सूक्त, पुरुष सूक्त)

प्रकाश (तेजस्) और ऊर्जा

COMPUTER

Make a meme on the international year of Glacier preservation using any app and bring it a jpeg or png file in a pendrive.

ART

Make an Art work depicting the theme **"PEACE"**

Note :

1. Your Art work can be a Painting , wall hanging, craft work, Model,3D sculpture etc.
2. Art work should depict the theme properly.
3. Student can choose any medium and size.

ECO

- **Upcycled Tin Can Lamp:-** Create patterns by punching holes in cans, paint them, and install an LED light inside.