

CLASS IX HOLIDAYS HOMEWORK 2025-26

ENGLISH

1. Design an informative and visually appealing poster to raise awareness about '2025 : *International Year of Cooperatives*' on an A4 sized sheet.
2. Write a fictional story where a group of characters come together to solve a problem or achieve a goal by forming a cooperative. Explore the themes like significance of cooperation, shared decision-making, benefits of team work, etc. through this story. Display the story in the form of a comic strip having dialogues on an A3 sized sheet.
3. Solve the Integrated Grammar practice 1-4 from English Workbook (pg-18, 34, 46, 72).
4. Access the assignment booklet folder and do the practice worksheets of topics covered so far in fair language notebook.
(Ch1,2 poem 1,2, reading skills, grammar, writing skills)

HINDI

1. निम्नलिखित कार्य A3 शीट पर कीजिए:-

क्रमांक	विभिन्न सहकारी समितियाँ	परिभाषा व प्रकार Roll No.	कार्य प्रणाली Roll No.	उद्देश्य Roll No.	पोस्टर Roll No.	स्लोगन Roll No.	Logo एवं मॉडल Roll No.
1.	कृषि सहकारी समितियाँ	1.	9.	17.	25.	33.	41.
2.	उपभोक्ता सहकारी समितियाँ	2.	10.	18.	26.	34.	42.
3.	आवास सहकारी समितियाँ	3.	11.	19.	27.	35.	43.
4.	ऋण सहकारी समितियाँ	4.	12.	20.	28.	36.	44.
5.	औद्योगिक सहकारी समितियाँ	5.	13.	21.	29.	37.	45.,49.
6.	महिला सहकारी समितियाँ	6.	14.	22.	30.	38.	46.,50.
7.	ग्रामीण सहकारी समितियाँ	7.	15.	23.	31.	39.	47.,51.
8.	शहरी सहकारी समितियाँ	8.	16.	24.	32.	40.	48.,52.

2. निम्नलिखित अनुच्छेद लगभग 120 शब्दों में व्याकरण की कॉपी में लिखिए ।

• विज्ञापन और हमारा जीवन • मनोरंजन के आधुनिक • मन के हारे हार हैं, मन के जीते जीत।

3. निम्नलिखित कार्य A4 शीट पर करके पोर्टफोलियो फाइल में संलग्न कीजिए:-

संत नामदेव, संत सधना, संत सैनु, संत त्रिलोचन का संक्षिप्त परिचय चित्र सहित लिखिए।

4. प्रथम इकाई परीक्षा के लिए दिए गए पाठ्यक्रम को कंठस्थ करके आगामी परीक्षा हेतु उसकी पुनरावृत्ति कीजिए।

SANSKRIT

शब्द रूप धातु रूप याद करे करे।

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, गुण, उपयोग

शरीर, मन, ब्रह्मांड में उनकी उपस्थिति 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 (तेजस) और ऊर्जा (शक्ति) की परिभाषा

- गत प्रश्नपत्र हल कुर्यु :

MATHS

1. Do the assignments of the following chapters in assignment register-

Ch - 1 Number system

Ch - 2 Polynomials

2. Do the activities

(A) Square root Spiral activity from number system in file.

(B) Factorisation of polynomial from the chapter polynomials in activity file

3. Create the mind maps of the following chapters in the activity file-

A. Number system B. Polynomials

4 Do the following activities on A4 sheet according to your roll number as given below

Roll no.	Activity
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1-10.	Warli art
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11-20.	Mandala art
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21-30.	Crossword
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31-40.	Board game
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41-50.	Puzzle
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Exhibition Work

Topic Cooperatives

The Indian cooperative sector, a diverse landscape, includes numerous societies operating across various sectors like agriculture, credit, housing, and women's welfare. These cooperatives play a vital role in promoting financial inclusion, providing credit to farmers and small entrepreneurs who may face challenges accessing conventional banking services. They are also crucial for rural development, empowering local communities and reducing socioeconomic disparities

Examples of Cooperative Activities:

- **Credit and Banking:**

State cooperative banks, district cooperative central banks, and primary agricultural credit societies provide financial services to members.

- **Agriculture:**

Cooperatives offer support to farmers through agricultural inputs, marketing, and credit facilities.

- **Housing:**

Housing cooperative societies provide affordable housing options for members.

- **Consumer Goods:**

Consumer cooperative societies offer goods at reasonable prices and eliminate middlemen.

- **Dairy:**

Dairy cooperatives, like AMUL, have been successful in India, contributing to the economic growth of their members.

Students of class IX should prepare a project including

- Brief introduction of topic
- Model representing given topic
- statistical analysis of profit earned during last 10 years
- Statistical analysis of various expenses incurred during production
- Graph or pie chart depicting above expenses
- Gender ratio of working employees

Chart paper showing above information <u>Roll no</u>	<u>Topic</u>	
<u>Roll no 1-10</u>	<u>credit and banking sector</u>	
<u>Roll no 11-20</u>	<u>Agricultural</u>	
<u>Roll no 21-30</u>	<u>Housing</u>	
<u>Roll no 31-40</u>	<u>Dairy</u>	
<u>Roll no 41-50</u>	<u>Consumer goods</u>	

SCIENCE

PHYSICS

1. Revise the chapter "Motion" thoroughly. Ensure you understand concepts like distance, displacement, speed, velocity, acceleration, and equations of motion.
2. Complete all NCERT intext and back exercise questions from the chapter Motion in your fair notebook.
3. Solve the Motion assignment from your assignment booklet and write it neatly in your fair notebook.
4. Create a Mind Map of Motion on an A4-size pastel sheet. This should include:
 - Types of motion (uniform and non-uniform)
 - Important formula and key concepts

- Graphical representation of motion
- Real-life examples of motion
- Summary of equations of motion

CHEMISTRY

1. Complete all NCERT intext and back exercise questions from the chapter Matter in our Surroundings in your fair notebook.
2. Revise the chapter “Matter in our surroundings” thoroughly for Unit Test examination.
3. Solve the assignment of Matter in our surroundings from your assignment booklet and write it neatly in your fair notebook.
4. Art Integration Work

MEMETASTIC PROJECT WORK

Craft a meme on A4 size sheet depicting the different properties of matter using any software(eg.-Canva) and AI apps.

(Rubrics parameters to be observed- Creativity, Presentation, Idea and timely submission).

BIOLOGY:-

1. Revise the ch-5 The fundamental unit of life for Unit test.
2. Complete your fair notebook and practical file of biology.

Notebook: ch: Fundamental unit of life

Practical File: i). To study the structural and optical parts of compound microscope.

ii). To prepare a temporary mount of onion peel and record it's observations.

3. Attempt the assignment for Ch- The fundamental unit of life in fair notebook.(Assignment will be provided to you)

Portfolio work :-

* Students will perform potato osmometer activity given in the form of the last question in the back exercise of ch : Fundamental unit of life.

* Record the observations in the form of pics or drawings on A4 sheets.

Presentation Guidelines:

- Keep all sheets organized and in order (Physics → Chemistry → Biology).
- Use A-4 size sheets for written work and activities.
- Tie all completed homework together using a ribbon only (no stapler or binder clips).

EXHIBITION WORK

The United Nations has declared 2025 as the International Year of Quantum Science & Technology (IYQ) to celebrate 100 years since the foundation of quantum mechanics, one of the most revolutionary fields in physics. This initiative aims to raise global awareness about the significance of quantum science and its applications in various aspects of life.

The following are the topics and related innovative strategies allotted according to roll nos.

Roll No.	TOPIC	INNOVATIVE ACTIVITIES
1-10	Origins of Quantum Mechanics	Create an illustrated timeline highlighting key discoveries in quantum science over the last 100 years.
11-20	Quantum Computing: The Future of Computation	Develop an infographic explaining how quantum computing differs from classical computing.
21-30	Quantum Communication & Cryptography	Write a short story imagining a future where quantum communication is widely used—highlight its benefits and challenges.
31-40	Quantum Entanglement and its Mysteries	Conduct a creative experiment or simulation demonstrating the concept of quantum entanglement using simple materials
41-50	Quantum Sensors and Their Applications	Design a prototype model or sketch showing how quantum sensors can revolutionize medicine or space exploration.
51-60	Quantum Technologies & Everyday Life	Prepare a presentation connecting quantum technology to real-world applications like GPS, MRI machines, and semiconductor advancements.

Important Notes:

1. Holiday homework will contribute to internal assessment or serve as a subject enrichment activity.
2. More weightage will be given to innovative work, research-based projects, original contributions, and the use of eco-friendly materials wherever applicable.

Presentation Requirements:

1. Work must be completed on A3 size sheets to ensure uniformity.

2. Use dark shades of sketch pens so that your content is clearly visible, with an appropriately sized font for readability.

SOCIAL STUDIES

1. Complete all the given Assignments.
2. Learn all the Question-Answer for the Unit-1
3. Complete the Disaster Management Project file.
4. Make a chart and a pamphlet each on the topic “Role of Cooperatives in India” for the Social Science Exhibition.

INFORMATION TECHNOLOGY

1. Students may choose one or more of the following cyber safety topics and create a poster/ pamphlet/ comic strip or quiz to raise awareness:

- a) Cyber bullying· b) Password Security· c) Safe Use of Social Media
- d) Phishing and Online Scams e) Protecting Privacy and Personal Data
- f) Online Gaming Safety· g) Understanding Digital Footprints
- h) Malware and Computer Viruses

2. Revise Ch1 and Ch 3 (till pg 55) for Unit test.

ARTIFICIAL INTELLIGENCE

1. Imagine you are designing an AI solution to any of the following problems:

- a) bio medical problem b) agricultural c) education
- d) space research e) governance f) transportation.

What ethical rules would you program into it to make sure it behaves responsibly? Exhibit it in the form of a collage/comic strip/pamphlet/poster/Brochure.

2. Revise the chapters done in class. (till Page 52)

3. PROJECT WORK

<https://drive.google.com/file/d/1s7KjRXPIjd2rLpr7p1P5nds2i8m4uxNA/view?usp=sharing>

PHYSICAL ACTIVITY TRAINER

Prepare a chart on early childhood domains.

Write a paragraph on environmental factors that influence physical activity.

Write a lesson plan.

List down the physical activity planned for everyday physical strength session.

Prepare a time table for physical activity class.

Prepare a flowchart on the sequence of the planning cycle.

PERFORMING ART (Art and Craft Students only)

Topic- Peace

Size- A3 size Sheet (Poster/ Painting)

Colour- Any Medium (Poster colours, Watercolours, Pencil, Oil Pastels.)

ECO CLUB

Magazine Collage Art :- Create your vision board or dream board on an A3 size sheet for the year 2025-26 using cut out images from magazines.

