

ENGLISH

1. Short Story: Write a short story on a theme of your choice, incorporating literary devices like imagery, foreshadowing, and symbolism.

2. Poetry: Compose a poem on a topic that resonates with you, experimenting with different forms, structures, and language techniques.

3. Dialogue: Write a dialogue between two characters with contrasting perspectives on a social issue, exploring their thoughts, feelings, and motivations.

4. Character Analysis: Choose a character from a novel or play and analyze their development, motivations, and relationships in with other characters.

5. Theme Exploration: Explore a theme from a novel or play, discussing its significance, relevance, and impact on the characters and plot.

6. Literary Magazine: Create a literary magazine featuring your own writing, artwork, and reviews of books or movies.

7. Reading Log: Maintain a reading log, recording your thoughts, opinions, and insights about the books you read during the holidays.

8. Project: "Literary Character Study"

Create a comprehensive study of a literary character from your Class 9 English Course .

• Choose a character: Select a character from a novel, play, or poem that interests you.

•Research and analysis: Gather information about the character's background, motivations, relationships, and development throughout the story.

•Character profile: Create a detailed profile of the character, including their strengths, weaknesses, goals, and conflicts.

•Visual representation: Design a visual representation of the character, such as a collage, drawing, or digital artwork.

• Presentation: Prepare a short presentation to showcase your character study, discussing the character's significance, themes, and relevance to the story.



ग्रीष्मकालीन अवकाश हेतु गृहकार्य)

•व्यक्तिगत <mark>डायरी लेखन-</mark> गर्मी की छुट्टियों <mark>में कम से कम 1 दिन का अन</mark>ुभव जिसमें आपने कुछ नया सिखा या देखा हो या कोई यात्रा का अनुभव आदि लिखे ।

•पोस्टर निर्माण और नारा लेखन- पर्यावरण संरक्षण/बाल श्रम विरोध/स्वच्छ भारत हिंदी फिल्म की समीक्षा- 'अतिथि तुम कब जाओगे' फिल्म देखकर उसकी समीक्षा लिखें बिंदू- पात्र, कथानायक, सन्देश, आपकी राय

•स्वरचित कविता - गर्मियों की छुट्टियों में आपको कई नए अनुभव सीखने को मिलेगें जैसे-

प्रकृति के साथ समय बिताना,परिवार के साथ समय बिताना,यात्राएँ इन्हीं को कल्पना का आधार बनाकर एक स्वरचित कविता लिखिए l

समाचार रिपोर्टर- एक वीडियो बनाए जिसमें आप रिपोर्टर की तरह अभिनय करे |

संकेत- किसी पर्यटनस्थल की लाइव विडियो बना सकते हैं, अपने परिवार के सदस्यों का साक्षात्कार ले सकते है |

व्यवहारिक ज्ञान - अपनी माता/बहन से या घर के किसी सदस्य से एक नई रेसिपी सीखे और उसकी विधि लिखें |

SCIENCE

Make a working model of 1.Water Rocket (R.no 1-5) 2.Human Heart(R.No-6-10) 3.Earthquake Alarm(R.no 11-15) 4. River cleaning boat(R.no 16-20) 5.Solar power Irrigation system(21-25) 6.3d model of plant cell(26-30) 7.3d Model of animal cell(31-35) 8.Atomic structure(36-40) 9.Newton's Cradle(41-45) 10.Electric lift(46-48)

Physics

1) Revise and complete chapter-8" MOTION".

2)Activity-'How to determine direction of motion in circular path?" Make a video or power point presentation to demonstrate it.

3)Do assignment in physics notebook.

ASSIGNMENT -1

MOTION

SHORT ANSWER QUESTIONS

1. The displacement of a moving object in a given interval of time is zero. Would the distance travelled by the object also be zero? Justify you answer.

2. A body goes from point A to B and then return then from B to A. What is the total displacement?

3. A particle is moving in a circle of diameter 5m. Calculate the distance covered and the displacement when it competes 3 revolutions.

4. A body thrown vertically upwards reaches a maximum height 'h'. It then returns to ground. Calculate the distance travelled and the displacement.

5. A body travels a distance of 15m from A to B and then moves a distance of 20m at right angles to AB. Calculate the total distance travelled and the displacement.

6. An object is moving in a circle of radius 'r'. Calculate the distance and displacement, when it completes half the circle and When it completes one full circle.

7. In along distance race, the athletics were expected to take four rounds of the track such that the line of finish was same as the line of start. Suppose the length of the track was 200m.

(a) What is the total distance to be covered by the athletics?(b) What is the displacement of the athletics when they touch the finish line?

(c) Is the motion of the athletics uniform or non-uniform?

(d) Is the displacement of an athletic and the distance covered by him at the end of the race equal?

8. John travels 250 m to North but then back-tracks to South for 105 m to pick up a friend. What is John's total displacement?

9. A farmer moves along the boundary of the square field of side 10m in 40 seconds. What will be the magnitude of displacement of the famer at the end of 2 minute 20 seconds from its initial position?

10. Define uniform and non-uniform motion. Write one example for each.

CHEMISTRY

☆A Pictorial Project Report On The States of Matter.

★Revise and complete Ch-1 "Matter in our surrounding" done in online classes. 3)Make a Pictionary of 50 new words related to chemistry from the chapters of NCERT and also paste pictures related to the topic.

BIOLOGY

★Learn and write all question and answers of the chapter Fundamental Unit of Life and write in a separate notebook.

Make a project on sustainable use of natural resources in a file along with the pictures.

Write onion peel and cheek peel epithelial cells experiments in your lab manual.

MATHEMATICS

1.	Find the value of $0.\overline{22} + 0.\overline{23}$ in the form of p/q , where p and q are integers and q
	≠ 0.
2.	Find the value of x in the following cases:
	(i) 5^{x-3} . $3^{2x-8} = 225$
	(ii) $\sqrt[3]{2x+3}=5$
3.	Simplify : $\sqrt{5+\sqrt{3}}$
	$\sqrt{80+\sqrt{48-\sqrt{45-\sqrt{27}}}}$
4.	Solve
	(i) Add: $\sqrt{125} + 2\sqrt{27}$ and $-5\sqrt{5} - \sqrt{3}$
	(ii) Multiply: $(-3+\sqrt{5})$ and $(7+\sqrt{3})$
	(iii) Divide: $2\sqrt{216} - 3\sqrt{27}$ by 3
5.	If $\frac{3+2\sqrt{5}}{3-2\sqrt{5}} = p + q\sqrt{5}$, then find the value of $11(p+q)$.

6.	Simplify:
	$\frac{(25)^{5/2} \times (81)^{1/4}}{(25)^{5/2} \times (81)^{1/4}}$
	$(125)^{23} \times (27)^{23} \times 8^{4/3}$
7	Salva
/.	
	$\frac{1}{1+\sqrt{2}} + \frac{\sqrt{2}}{\sqrt{2}} + \frac{\sqrt{3}}{\sqrt{3}} + \frac{\sqrt{4}}{\sqrt{4}} + \frac{\sqrt{5}}{\sqrt{5}} + \frac{\sqrt{6}}{\sqrt{6}} + \frac{\sqrt{7}}{\sqrt{6}} + \frac{\sqrt{7}}{\sqrt{7}} + \frac{\sqrt{8}}{\sqrt{8}} + \frac{\sqrt{9}}{\sqrt{8}} + \frac{\sqrt{9}}{\sqrt{8}}$
8.	If $x=9-4\sqrt{5}$ then find
	(a) $x + \frac{1}{x}$ (b) $x - \frac{1}{x}$
2	(c) $x^2 + \frac{1}{x^2}$ (d) $x^2 - \frac{1}{x^2}$
	(e) $x^3 + \frac{1}{x^3}$ (f) $x^3 - \frac{1}{x^3}$
9.	Evaluate:
	(a) $\frac{2^{38} + 2^{37} + 2^{36}}{2^{39} + 2^{38} + 2^{37}}$ (b) $(9 + \sqrt{2} - \sqrt{3})^2$
E	(c) $\left[5\left(8^{1/3}+27^{1/3}\right)^{7}\right]^{1/4}$ (d) $\left(6-\sqrt{2}\right)\left(2+\sqrt{3}\right)$
10.	If $x = 2^{y}$ and $9 \times 3^{2x} - 3^{x} \times 3^{x-2} = 360$. Find the value of y.
11	
11.	What is the degree of the polynomial $(x^2 + 5)(4-x^3)$?
12.	Find the value of m, if $x + 4$ is a factor of the polynomial $x^2 + 3x + m$.
13.	Factorize :
2	(i) $x^3 - 3x^2 - 9x - 5$
	(ii) $2y^3 + y^2 - 2y - 1$
	(iii) $8x^3 - (2x-y)^3$
	(iv) $125x^3 + 8y^3 + z^3 - 30xyz$
	(v) $7\sqrt{2k^2-10k-4\sqrt{2}}$
	(vi) $x^{12} - y^{12}$
14.	Write the coefficient of x^2 in the expansion of $(x-2)^2$.
15.	Factorize : $64a^3 - 27b^3 - 144a^2b + 108ab^2$
16.	Simplify: $(2a+3b)^3-(2a-3b)^3$

	17.	What is	the	degree	of a	zero	polynomial?
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18. If $\frac{x}{y} + \frac{y}{x} = -1$ where $x \neq 0, y \neq 0$ then find the value of $x^3 - y^3$

19. Simplify :

 $\frac{155 \times 155 + 155 \times 55 + 55 \times 55}{155 \times 155 \times 155 - 55 \times 55 \times 55}$

20. If $49x^2 - (\sqrt{b})^2 = (7x + \frac{1}{2})(7x - \frac{1}{2})$ then the value of b is?

Working model

- Make a working model based on the Laws of Exponents.
- Make a working model based on Algebraic Identities.

Subject enrichment activity

- Few activities mentioned below. (To be done in Lab Manual) Activity no- 2, 7, 8, 9, 12
 <u>Steps of activities:</u>
 - (1) Objective
 - (2) Material required
 - (3) Pre requisite knowledge
 - (4) Procedure
 - (5) Learning Outcomes
 - (6) Remarks

Social Science

PART-A

- 1. Prepare a project on any one of the following topics:
 - a) Any one man made disaster

OR

b) Any one natural disaster.

Guidelines for preparing the project:

- 1. The project must be hand written and not more than 10 pages (20 sides, includes both sides of the paper used). However this can be an e-project as well.
- 2. Relevant material, pictures, newspaper clippings or any other material related to the topic may be used.
- 3. Students may also insert videos if it is an e-project.
- 4. The project must have

At the beginning

- i) A cover page
- ii) An acknowledgement
- iii) Table of contents / index.

At the end

Bibliography which includes a mention of the sources from where reference Material has been obtained.

- 5. Marks will be allotted for
 - i) Relevance of matter
 - ii) Aesthetics and presentation
 - iii) Timely submission.

PART-B

Prepare the model on the given topics as per your Roll numbers allotment :

1.French Revolution Diorama

Subject: History

Model Idea: Create a 3D diorama showing a scene from the French Revolution Include: (Roll No. 1-6)

- Estates General meeting or storming of the Bastille
- Estates (Clergy, Nobility, Commoners)
 - Tricolour flag, revolutionary symbols (Liberty cap, guillotine)

Learning Outcome: Understanding class conflict, revolution stages, and symbols of liberty.

2. Climate Zones of India

Subject: Geography

Model Idea: A topographic model of India showing different climatic zones

Include: (Roll No 7 – 12)

- Labels for arid (Rajasthan), tropical (Kerala), mountain (Himachal), etc.
- Climatic features like rainfall, wind direction, temperature icons

Learning Outcome: Understanding India's climatic diversity and its influence on lifestyle and agriculture.

3. Working of Democracy: A Mock Polling Booth Subject: Political Science

Model Idea: Setup of a polling booth and election process Include: (Roll No. 13 -18)

EVM machine, voter list, ballot box, polling officer table

• Posters about voter ID, rights, and fair elections Learning Outcome: Practical understanding of democratic process, voting rights, and citizen participation.

4. Types of Farming in India

Subject: Geography / Economics

Model Idea: A multi-zone farm model showing different types of farming

Include: (Roll No.19-24)

• Subsistence farming, commercial farming, plantation, and shifting agriculture

• Different crops, irrigation methods, and tools Learning Outcome: Understanding of farming techniques, crop patterns, and regional variations.

5. India's Physical Features – Relief Map Model Subject: Geography

Model Idea: 3D Relief Map of India

Include: (Roll No. 25 – 30)

- Mountains, plains, plateaus, deserts, coastal areas, islands
- Label rivers, major mountain ranges, and neighbouring countries

Learning Outcome: Grasp of India's physical divisions and their significance.

6. Rural vs Urban Economy

Subject: Economics

Model Idea: Split model showing life in a rural and urban economy side by side

Include: (Roll No. 31-36)

- Rural: Farming, animal rearing, local markets
- Urban: Factories, offices, transportation

Learning Outcome: Differences in employment, infrastructure, lifestyle, and economic challenges.

7. Nazi Propaganda Techniques

Subject: History – Nazism and the Rise of Hitler

Model Idea: Display board with mini-posters or a rotating wheel model

Include: (Roll No. 36- 41)

Propaganda tools: posters, radio, newspapers, education

• Symbols like swastika, Hitler's imagery, slogans Learning Outcome: Understanding how propaganda shaped public opinion and controlled society.

8. Water Resources and Conservation Subject: Geography

Model Idea: Model of a watershed showing water conservation methods

Include: (Roll no. 42 onwards.)

• Rainwater harvesting, bunds, check dams, tanks

• Village houses, a river, and farming plots Learning Outcome: Significance of water conservation and sustainable practices.

Artificial intelligence

DO any 2 only

1. Research and Write – Domains of AI

Write a short explanation (5–6 lines each) about the following domains of AI with one real-life example for each:

- Data Science
 - Computer Vision
 - Natural Language Processing (NLP)
- 2. Activity Al in Daily Life

Make a list of 5 AI applications you use or observe in your daily life.

For each, write:

- Name of the application
- What it does
- How AI is used in it

(Example: Google Assistant - voice-based search - uses NLP and Machine Learning)

3. Create a Poster – "Ethical Use of AI"

Design a colorful poster highlighting 3–4 ethical issues in the use of AI, such as:

- Data privacy
- Job displacement
- Bias in algorithms
- Deepfakes

You may draw or use printed images. Be original and informative!

Art and Craft

LIPAN AFT
MATERIALS TO BE USED HARD BOARD (12X12 INCH) (SHAPE - SQUARE OF FOUND ONLY)
FEVICTYL MOULDIT
FABRIC COLOURS
MIFFORS
FEVICOL
DECORATIVE ACCESSORIES