



DARBARI LAL D.A.V. MODEL SCHOOL

BN-BLOCK, SHALIMAR BAGH, DELHI – 110 088

CLASS – IX HOLIDAYS HOME WORK (2023 – 2024)

ENGLISH

Summer vacation is the perfect time to rejuvenate and unwind, to have the wonderful luxury of being at rest!

**Let this free time also energise you to introspect, analyse and plan so that you can perform more creatively once the school reopens. Do the mentioned activities with diligence, as it will be evaluated for Internal Assessment
Enjoy your vacation and come back recharged!**

Note: The assigned work is to be done on the sheets provided in the recommended portfolio file to ensure uniformity.

1. Read and understand all the prose chapters and poems of the prescribed text books BEEHIVE and MOMENTS thoroughly.

Prepare creative and colorful graphic organisers on:

- a) Any two of your favourite characters from any of the prose texts
- b) The poetic devices used in any four poems

(Note: kindly make an exception of the prose and poems already covered in the class)

2. Create an interesting, logical and ingenious alternate ending of the stories provided in the text MOMENTS in about 120-150 words. You may paste/draw some visuals to make it more presentable. Pick the story as per your roll number.

Roll No.	Chapter
1 – 6	The Lost Child
7 – 12	The Adventures of Toto
13 – 18	Iswaran the Storyteller
19 – 24	In the Kingdom of Fools
25 – 30	The Happy Prince
31 – 36	The Last Leaf
37 – 42	A House Is Not a Home
43 – the last roll no.	The Beggar

3. EK BHARAT SHRESTHA BHARAT - Project Work (Info-Album) on Andaman and Nicobar Islands to be done as a group activity with 5 members in each group including a group leader.

Reference topics:

- a) Forests – Flora and Fauna
- b) The Tribal Society
- c) Major Occupations and Economy
- d) Natural Disasters
- e) Colonialism



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CLASS – IX

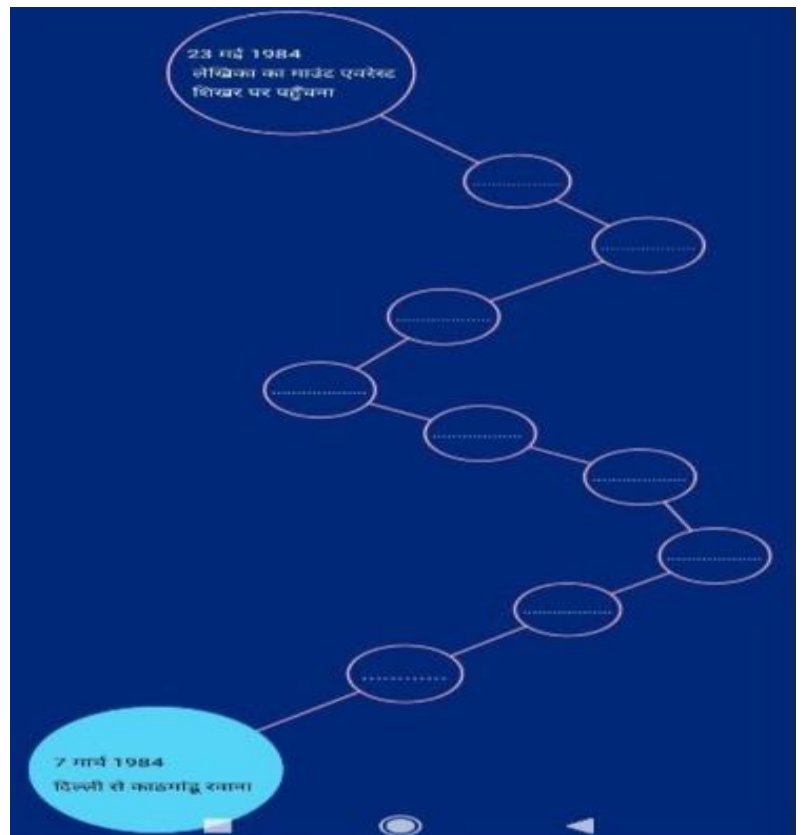
HOLIDAYS HOME WORK (2023 – 2024)

4. Descriptive Writing:
 - a) Write a descriptive writing on any one major EVENT that has taken place in your school in about 100-120 words (Example : Founder's day, Earth Day, Annual Day, Sports Day or any other event)
 - b) Write a descriptive writing on any one situation given below in 100-120 words:
 - # It was your birthday and you lost the money your father gave to you to give a birthday treat to your friends in school.
 - # Due to your carelessness in seeing the date sheet during annual exams, you came prepared for Science subject instead of Maths.
 - # You lost your school bag in playground when you had a games class in the last period.
5. Complete all exercise of Thinking about Language section of the prescribed text book BEEHIVE in the book itself.
6. Prepare the syllabus of periodic test – I thoroughly for the upcoming exams.

HINDI

- (1) साँप द्वारा डँसे जाने पर पीड़ित को क्या प्राथमिक चिकित्सा दी जानी चाहिए? सचित्र जानकारी देते हुए A4 आकार का पोस्टर बनाइए। (पाठ - 'दुख का अधिकार' के आधार पर)
- (2) स्त्रियों को समाज में कमजोर समझा जाता है परंतु बचेंद्री पाल ने दिखा दिया कि यह सोच रूढ़िवादी है। 'नारी सशक्तीकरण' विषय पर एक कविता सुंदर लेख में लिखिए तथा याद भी कीजिए।
- (3) प्रसिद्ध पर्वतारोही महिलाओं के नामों की सूची तैयार कीजिए तथा लेखिका बचेंद्री पाल की एवरेस्ट शिखर यात्रा को श्रृंखला बद्ध रूप में A4size Sheet पर लिखिए।

नोट- इस कार्य के लिए तीन A4 आकार की शीट का प्रयोग कीजिए। पहली शीट पर नाम, कक्षा व वर्ग, अनुक्रमांक, विषय, (सत्र - 2023 - 24), विषय अध्यापिका का नाम लिखिए। दूसरी शीट पर महिला पर्वतारोहियों के नामों की सूची बनाइए। तीसरी शीट पर दिए गए आरेख की तरह लेखिका की एवरेस्ट यात्रा को श्रृंखलाबद्ध रूप में लिखिए।





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CLASS – IX

HOLIDAYS HOME WORK (2023 – 2024)

- (4) कविता 'रैदास के पद' के प्रथम पद में वर्णित किसी एक प्रसंग की आकर्षक और रंगीन चित्रात्मक अभिव्यक्ति A4 Size Sheet पर प्रस्तुत करें।
- (5) 'वन्य संरक्षण' से संबंधित चित्र सहित दो नारे (स्लोगन) A3 Size Sheet पर लिखिए।
- (6) पढ़ाए गए पाठों के प्रश्नोत्तर याद कीजिए।
- (7) 'तुम कब जाओगे अतिथि' हिंदी फिल्म देखिए।

SANSKRIT

मणिका – भाग 1

- कक्षा में पठित पाठों की पुनरावृत्ति करें।
- प्रथमसत्र के सभी शब्द रूप व धातुरूप स्मरण करें।
- प्रथम पाठ 'पाथेयम्' से कोई दो श्लोक स्मरण करें तथा कक्षा में सस्वर सुनाएँ।

रचनात्मक कार्य

- ग्रीष्मकालीन अवकाश के अन्तर्गत 'मम दिनचर्या' इस विषय पर संस्कृत में चित्रसहित दस वाक्य लिखिए।
- पाठों के अन्त में दिए गए संस्कृत चुटकुलों (एहि हसामः) का सचित्र सुन्दर लेखन करें।

अथवा

इसी विषय पर एक सुन्दर पी० पी० टी० का निर्माण करें।

नोट:-

- (i) उपरोक्त कार्य का मूल्यांकन कर अंक प्रदान किए जाएँगे।
- (ii) इस कार्य को छात्र ए – 4 साइज़ शीट पर करें।

MATHEMATICS

General Instructions:

Art integration Activity/Experiential learning Activity to be done on the sheets provided in Portfolio file and interdisciplinary activity on A3 size sheet.

ART INTEGRATION ACTIVITIES

ACTIVITY 1

Topic: Square Root Spiral Art Project

Chapter: Number system.

AIM:

- Understand the concept of the square root spiral and its mathematical properties.
- Create an innovative artistic representation of the square root spiral on the any one of the following topics: SDGs /G-20 logo /scenery/jewellery etc. using any art technique.



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CLASS – IX

HOLIDAYS HOME WORK (2023 – 2024)

Instructions:

1. Research and write about the square root spiral (not more than 5 lines) and paste two pictures of square root spiral in real life.
2. Create a sketch of the spiral with measurements and labels.
3. Use any art technique to create an original artwork that incorporates the square root spiral.

Example: SDG 14: Life below water



ACTIVITY 2

TOPIC: ALGEBRAIC IDENTITIES

CHAPTER: POLYNOMIALS

Design a beautiful visually appealing online game using word wall /foldable/Puzzle/working model on all the algebraic identities of chapter POLYNOMIALS.

ONLINE GAME	(Roll nos.1 to 13)
FOLDABLES	(Roll nos.14 to 26)
PUZZLES	(Roll nos. 27 to 39)
WORKING MODEL	(Roll nos. 40 to 48)

3) INTERDISCIPLINARY ACTIVITY:

As we know that Colonial hunting, practices in India were characterised by the exploitation of wildlife. The British colonial government encouraged trophy hunting and game hunting among the wealthy, which led to the widespread killing of large mammals, particularly tigers, elephants, and rhinoceroses. Colonial hunting practices had a devastating impact on Indian forests and their inhabitants, and their legacy can still be felt today in the form of habitat destruction, loss of biodiversity, and cultural erosion.

The students are required to attach an A3 size coloured sheet in the newspaper created on the given topic covering the following activity.

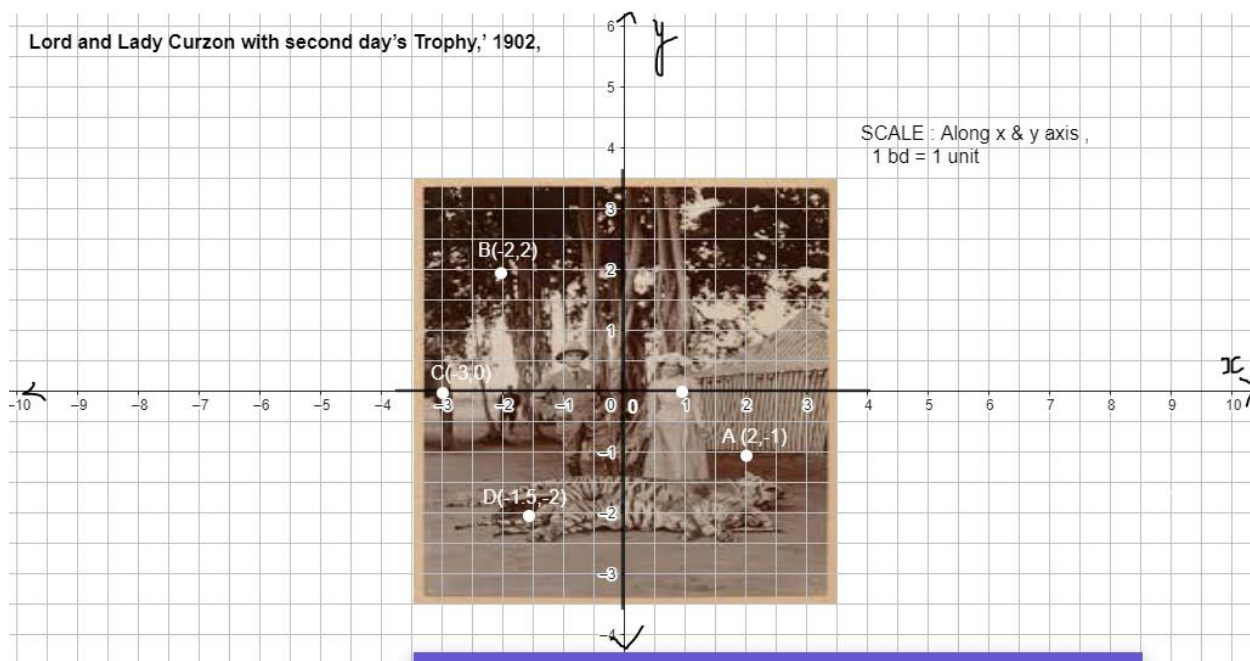
TOPIC: FOREST, SOCIETY AND COLONIALISM

CHAPTER: COORDINATE GEOMETRY

CLASS – IX HOLIDAYS HOME WORK (2023 – 2024)

AIM: To draw/paste a colourful picture of the animals widely hunted during colonial period in India on the cartesian plane not the same as given in E.g and mark any 5 points on it and complete the following table.

E.g.



S. No.	Point	Coordinates	Abscissa	Ordinate	Axis/ Quadrant	Find the value of (abscissa - ordinate)	Distance of Point from x-axis	Distance of Point from y - axis
1	A	(2,-1)	2	-1	4th quadrant	$2 - (-1) = 3$	1 unit	2 units
2	B	(-2,2)	-2	2	2nd quadrant	$-2 - 2 = -4$	2 units	2 units

4) EK BHARAT SHRESHTHA BHARAT (EBSB)

Group Activity

Indian monuments represent one of the most outstanding facets of multifaceted Indian culture. Each Indian Monument is a remarkably splendid sample of unbelievable artistry covering a sense of mystery, deception & bravery.

Finding maths wonders in monuments of Andaman & Nicobar and Delhi

Aim: To create awareness about the built heritage of our country and safeguarding it from natural calamities and human vandalism.

An oath should be taken by all the students before starting the activity, so they have a feeling of self consciousness and respect towards this goal.

Content of activity should be

- 1) Cover Page
- 2) Index



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CLASS – IX

HOLIDAYS HOME WORK (2023 – 2024)

- 3) A) Aim of the activity
- B) Oath is given below :
- I am proud of the rich culture and heritage of India.
 - I will respect all monuments, which are a part of my country's heritage.
 - I will not scribble, deface or encroach upon any monument.
 - I pledge to render all possible help to conserve and preserve our heritage.
 - I along with my schoolmates will endeavour to save and protect the heritage site at (.....)
- 4)
- Definition of Monument
 - Pictures of monuments (One Delhi and one Andaman and Nicobar islands)
 - Name of Monuments
 - Site of Monuments
 - Maths used in designing Monuments (Any 5 points).
 - Collect information on the dimensions and geometry of the monument.
 - Recognise and identify the names of shapes.
 - Understand and locate lines of symmetry.
 - mirror image / reflection
 - The technique employed in building the monument
 - The estimated cost of building the monument. And how much would it cost to build that monument today?
 - Story/Myth regarding the monument (in 5-6 lines)
 - As a student, your responsibilities regarding the conservation of monuments.

Group 1: Roll nos. 1 to 9

Group 2: Roll nos. 10 to 18

Group 3: Roll nos. 19 to 27

Group 4: Roll nos. 28 to 36

Group 5: Roll nos. 37 to last Roll no.

5) Revise the syllabus of PT1

Chapter 1: Number System.

Chapter 3: Coordinate Geometry.

SCIENCE & TECHNOLOGY

PHYSICS:

Holiday is the time that we all eagerly wait for.

We all make plans to enjoy, to relax and to empower ourselves during these days. This summer vacation the Holiday Homework is designed as a medium for you all to achieve the motto of “Fun and Learn” The activity-based assignments will foster curiosity, develop creativity, enhance knowledge and instill the joy of learning among you all. It will certainly help you to discover a new you, who is more enriched and confident and performs every action to perfection.

The models should be made by using eco-friendly materials like threads, paper, clay, cardboard, rope etc.



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CLASS – IX HOLIDAYS HOME WORK (2023 – 2024)

TASK 1:

- ROLL NO. (1-24): Make innovative and beautiful posters using your imagination and creativity on A-3 size sheets on any one of Newton's Law of motion.
- ROLL NO. (25 onwards): Make 2 D or 3 D model showing that the value of 'g' the acceleration due to gravity varies with the mass of the planets in the solar system.

Note: Students can refer to Google as a reference for making models and posters.

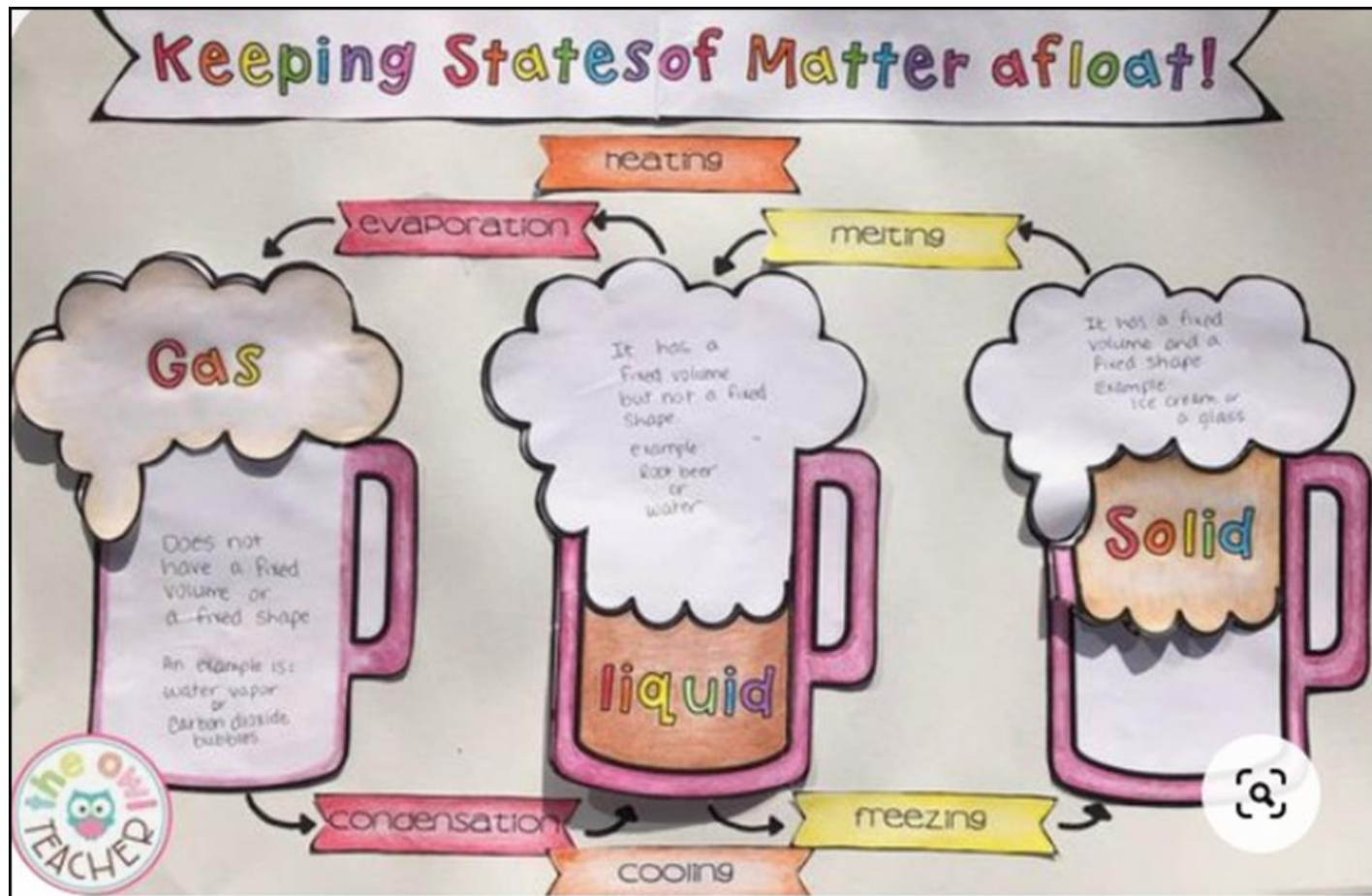
TASK 2:

All students must revise chapter motion and practice numerical.

CHEMISTRY:

One of the nice ways of getting students to think about chemistry, especially at introductory levels, is to have them present on something topical that can be related to their core chemistry. Students if you're a fan of the idea of promoting science through art. Then gear up and put your thinking caps on

Your task is to make a 2-D model on cardboard of A-3 size representing the properties and interconversion of 3-states of matter.





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CLASS – IX

HOLIDAYS HOME WORK (2023 – 2024)

BIOLOGY:

Summer Vacation is a time to relax, be productive and to get ahead. As important as it is to rest and enjoy, it is also important to continue to learn. You can spend your time as you wish but make sure that along with enjoying and relaxing make this summer a time to learn new things and exploring the opportunities available. To enhance your learning, we have planned activities to keep your skills sharp and concepts clear. Use your energy and give a vent to your creativity. It will surely enhance your learning process.

Chapter – 5 – The fundamental unit of life.

1. Cells are the basic structural and functional unit of our life. Cell organelles of the animal cell play a very vital role in the functioning of our body

Roll No. 1 – 15

1. a) Make an innovative working board game using waste materials to understand the importance of all cell organelles present in the animal cell.

You have to mention the following points

- a) Material required
- b) Procedure
- c) observations
- d) conclusion
- e) precautions

As Sound health is very important for our body to remain tuned in that regard mention nutrients that will make animal cell healthy and boost up it's immunity.

Game rules

- * Mention No. of players
- * Criterion for giving points
- * For wrong answer- negative marking

Roll No 16 – 30 Design 3D model of plant cell using recyclable materials.

Roll No. 31 onwards Design 3D model of an Animal cell using recyclable materials.

Chapter – 6 – TISSUES

ROLL NO. 1 – 24

2. Show your creativity and inquisitive mind to make 3D puppets of any one Animal tissue.
Materials to be used: socks, caps, gloves, wool, thread, beads, cardboard, thick sheets, colours etc.

ROLL NO 25 onwards

Make a model of any one Animal tissue using the concept of 3Rs.



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CLASS – IX HOLIDAYS HOME WORK (2023 – 2024)

INTERDISCIPLINARY ACTIVITY

Exploring Millets to Diversify Cereal Options in our Diet and the Environment

The UN is celebrating 2023 as the International Year of Millets. When India's Finance Minister Nirmala Sitharaman announced the Union Budget in February 2023, she referred to millets as "shri anna" or the best of all grains. She has done rebranding of millets as the 'poor man's grain' and listed as a neglected and underutilized crop species. In India, experts say the Green Revolution eliminated food diversity and reduced the importance of millets in our farms and plates.

Staple crops such as rice, wheat and maize can't solve the crisis of micronutrient deficiency. Millets, on the other hand, are known to have a range of nutritional benefits

Our goal is to diversify agriculture and our diet by the cultivation and consumption of lesser-known grains such as millets.

Roll No. 1 – 24

To accomplish the task you have to choose any one millet and make a colorful Frayer model on A-3 ivory sheet and following topics need to covered

1. Characteristics
2. Any innovative recipe that can be made by using millets
3. Occurrence
4. Nutrient value and Economic importance.

Note: On the borders of the sheet draw or paste photos of various millets.

Roll No: 25 – 50

Make a concept cartoon choosing any one millet covering following points

- * Characteristics
- * Occurrence
- * Nutrient value
- * Economic importance

SOCIAL SCIENCE

HISTORY

Ch – THE FRENCH REVOLUTION

- 1) Reading political symbols

- Identify the symbols, which stand for LIBERTY, EQUALITY and FRATERNITY.

Instructions - Students are required to draw pictures related to the topic on A3 size coloured sheets and write a few lines related to the topic.

- 2) Timeline of French Revolution

- Using their creativity students are required to make a Tree (MODEL) depicting the events leading to the French revolution.



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CLASS – IX

HOLIDAYS HOME WORK (2023 – 2024)

Ch – FOREST, SOCIETY AND COLONIALISM and NATURAL VEGETATION (Interdisciplinary Activity)

- 3) HISTORY & GEOGRAPHY - The students to make a newspaper using A3 size coloured sheet covering the following points:-

History

- Condition of Indian forest during colonial rule. State of Indian forest in the present day
- Movements related to the forest. For example:- Chipko Movement, Gudum Hill Movement etc.

Geography

- Characteristics of Tropical evergreen forests - Climate, Soil, Flora, Fauna
- Challenges faced by Tropical evergreen forests like deforestation, climate change etc.
- Paste relevant pictures, Map of India depicting areas having Tropical evergreen forest, Graph/ Pie chart/ World map showing total geographical area of the World covered by Tropical evergreen forests.

POLITICAL SCIENCE

Ch – WHAT IS DEMOCRACY? WHY DEMOCRACY?

- 1) The students will do a comparative study on the systems of Government present in India and North Korea on an A3 size sheet.

Ch – CONSTITUTIONAL DESIGN

- 2) By drawing the Preambles of India and South Africa on an A3 size coloured sheet, the students will compare and contrast the preambles of both the countries.

Ch – ELECTORAL POLITICS

- 3) The State of Karnataka will be undergoing state legislative elections shortly. Based on your research, collect the following information and make an attractive and colorful scrapbook by using A4 size sheets.

The project should cover the following topics:

- a. Name of the state along with its map
- b. Symbol of party of your choice
- c. Name of chief ministerial candidate of your chosen party
- d. Popular slogans of the party -in English, Hindi or local language
- e. Party manifesto
- f. Results of the election.
- g. Reason for the party's defeat/ victory

ECONOMICS

- 1) **Experiential Learning Roll No. 1-25:** Plan a virtual visit to any village in Punjab. Make a report on A-4 size sheets about modern tools and techniques used by farmers in agriculture. Paste the relevant pictures as well.



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CLASS – IX

HOLIDAYS HOME WORK (2023 – 2024)

- 2) **Research Based Roll No. 26-50:** Our country suffers from Food Scarcity. Research about-
- What does food scarcity stand for?
 - Role of Government, various NGOs and Cooperatives in combating hunger in the country.
 - Specific policies and programmes initiated by government in order to combat hunger in country (At Least 4 policies to be mentioned)

INSTRUCTION- Make a project on A-4 size sheets covering aforesaid information.

- 3) Choose one topic from the following according to your roll number-

Roll No. 1–4 Write a slogan on 'Population Awareness' on A-3 size sheet

Roll No. 5–8 Make a poster on 'Women Empowerment' on A-3 size sheet

GEOGRAPHY

1) MODEL ON PHYSICAL FEATURES OF INDIA

India has been endowed with great Physical Relief. Throwing light on this, students are required to make 3-D models on the topics allocated. Work according to your roll nos.-

Roll No. 9-12 Model on Mountains

Roll No. 13-16 Model of Northern Plains

Roll No. 17-20 Model of Peninsular plateau

Roll No. 21-24 Map on A-3 size sheet depicting physiographic divisions of India. Use your creativity for the same.

2) RIVER MAP

On an A-3 size sheet make an outline map of the country. On that map trace the course of the river from their respective point of origin upto where they end along with all their tributaries. Mention the name of the river as well as different tributaries that join it, wherever required. Choose one river from the following according to your roll number.

Roll No. 25 – 28 Ganga River

Roll No. 29 – 32 Indus River

Roll No. 33 – 36 Brahmaputra River

Roll No. 37 – 40 Narmada River

Roll No. 41 – 44 Godavari River

Roll No. 45 – 48 Mahanadi River

3) Subject Enrichment

DISASTER MANAGEMENT PROJECT

Prepare a project on disaster management. Choose one topic from the following according to your roll number.

Select any one for your project.

- Cyclones (Roll no 1-6)
- Earthquake (Roll no 7-12)
- Drought (Roll no 13-18)



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CLASS – IX

HOLIDAYS HOME WORK (2023 – 2024)

- Nuclear accidents (Roll no 19-24)
- Landslides (Roll no 25-30)
- Floods (Roll no 31-36)
- Chemical and industrial accidents (Roll no 37-42)
- Biological disasters (Roll no 43-48)

Your project will start with the following points-

- Definition of 'Disaster'
- What is disaster management?
- What are the types of disasters?
- What is a hazard?
- Differentiate between hazard and disaster
- Based on your selection of a disaster according to your roll number, explain its Meaning, Causes, Do's and Don'ts, Prevention and mitigation measures, Latest means of forecasting disasters.

Instructions

The distribution of marks over different aspects of the project is as follows

S. No.	ASPECTS	MARKS
a	Content accuracy, originality and analysis	4
b	Presentation and creativity	4
c	Viva Voce	2

- Prepare the project in a simple handmade folder
- Project should be handwritten on plain A4 size sheets
- Project should have at least 15 – 20 pages
- Credit will be awarded to original drawings, illustrations and creative use of eco-friendly material.
- The project report should be developed and presented in the following order-

Cover page showing project title, student information, school and year

Acknowledgement

Index (Containing 3 columns – Sr. No., Topic, Page No.)

Content with relevant headings

Bibliography should have the title, author, publisher and if a website the name of the website with the specific website link which has been used.

4) MY ATLAS

Prepare 'My Atlas' covering following map activities (location and labeling)

Ch – 1 India: States and Union Territories with capitals

India: Neighboring Countries

Ch – 2 Physical Features of India

- Mountain Ranges: Karakoram, Zasker, Shivalik, Aravali, Vindhya, Satpura, Western & Eastern Ghats



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CLASS – IX

HOLIDAYS HOME WORK (2023 – 2024)

- Mountain Peaks – K2, Kanchan Junga, Anai Mudi
- Plateau - Deccan Plateau, Chota Nagpur Plateau, Malwa Plateau
- Coastal Plains - Konkan, Malabar, Coromandel & Northern Circar

Ch – 3 Drainage

- Himalayan Rivers- Indus, Ganga, Satluj
- Peninsular Rivers- Narmada, Tapi, Kaveri, Krishna, Godavari, Mahanadi
- Lakes- Wular, Pulicat, Sambhar, Chilika

PAINTING

Complete the Topics: Still Life, Landscape, Paper Collage

INFORMATION TECHNOLOGY (402)

(HHW carries 15 marks)

HHW I [5 marks]

Following questions require you to think beyond the study material provided. So think, explore and enjoy learning new concepts!

Do the following exercise in your Digital Notebook (Google Docs). Insert a new page and give heading as **HOLIDAYS HOMEWORK**

Hard drive, RAM, Central processing unit, Property tax, Motherboard, Power supply, Electronic voting

Q1. Write One Word in the following blanks using the Help box given

- (a) The computer's main circuit board, connects directly or indirectly to every part of the computer– _____
- (b) This part is where your software, documents, and other files are stored – _____
- (c) This part is to carry out commands. Whenever you press a key, click the mouse, or start an application, you're sending instructions to this part – _____
- (d) Government services that are available online are _____ and _____
- (e) Whenever your computer performs calculations, it temporarily stores the data in this part until it is needed – _____



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CLASS – IX HOLIDAYS HOME WORK (2023 – 2024)

Q2. Fill the following blanks appropriately using only two words (HARDWARE, SOFTWARE)

- (a) _____ is any part of your computer that has a physical structure.
- (b) _____ is any set of instructions that tells the structure what to do and how to do it.
- (c) You view your Holidays Home Work lesson in a web browser, which is a _____, and using your mouse, which is a _____ to click from page to page.

HHW II [10 marks]

Do any **ONE** of the activity given below:

Activity 1. Follow the instructions to make a **BINARY CODE BRACELET**



Step 1: Cutting the String

Measure a string of your wrist size.

Step 2: Bead Colors

Now you need 2 bowls of beads, 1 bowl with black beads, the other with white.

Step 3: Binary Code

To find the code go to www.convertbinary.com/alphabet.php. we are doing initials so look at the capital letters.

Step 4: Beading

(1=black and 0=white) Thread the beads. For example, if the initial is H, the beads would be:00010010.

Give one different color bead between the initials.

When finished, tie a knot and wear it!

Activity 2.

Watch the YouTube to create a **Spinning Wheel**.

<https://www.youtube.com/watch?v=RYjcCFte3Cw>

Now, make a spinning wheel on any **ONE** topic:

- a. Computer Language – Low Level Language, Assembly language, High Level Language
- b. Peripheral Devices – Input Devices, Output Devices, Storage Devices
- c. Types of Softwares – System Software, Application Software and Utility Software

ARTIFICIAL INTELLIGENCE (417)

- 1. Play all four games under AI Domains in google classroom to understand the concept of 3 domains of AI and SDG goals. Paste the screenshots of the games played by you in your Google doc.
- 2. Complete worksheet 1 and worksheet 2 given in google classroom.
- 3. Identify a problem and relate it to any SDGs. Design a solution to the problem identified using Minecraft/ Metaverse/ any drawing or design app. You would have to justify that problem is actually existing and solution will be beneficial to the community. For this, use only free version of software.



DARBARI LAL D.A.V. MODEL SCHOOL

BN-BLOCK, SHALIMAR BAGH, DELHI – 110 088

CLASS – IX

HOLIDAYS HOME WORK (2023 – 2024)

HINDUSTANI VOCAL MUSIC

During vacations try to enhance your music buds!!! Let's prepare a Bhajan or a prayer any Hindi or English will work. For class presentation. You can message me during holidays if you need any guidance.

*** Do complete your music theory notes during Holidays and prepare well for your exams.**