

# SUMMER VACATION



**JYANTI PRASAD DAV PUBLIC SCHOOL**  
GARHI JHANJHARA ROAD, GANOUR  
(UNDER THE DIRECT CONTROL OF DAV CMC, NEW DELHI)



*HOLIDAYS' HOMEWORK*

*SESSION 2024-25*

*CLASS IX*

FOR ANY QUERY CONTACT: **0130-2450641**

A fully English medium and the best school in area for  
all round development of students.

**TOGETHER WE CAN**

**FROM JUNE 01, 2024 TO JUNE 30, 2024**

## ***Dear parents***

*We wish you a very happy and fruitful time with your children. Summer vacation is the most awaited time for the students as they want to play, enjoy and relish with their friends, neighbours and relatives. This is a time for them to stay away from the mundane schedule of daily life. They want to enjoy it in leaps and bounds. But we request you to keep their energy channelised. You should be a part of their enjoyment but time and again a check is required. Now it's your responsibility to make them stay connected with their studies along with fun and frolic & encourage them to do their homework in a neat and tidy manner.*

### ***Here are some of the suggested activities that you can do as a family:***

- 1. Prepare a well-being plan for self.*
- 2. Stick to routines or starting new ones.*
- 3. Get up and go to sleep at regular times.*
- 4. Help them explore new hobbies and interest.*
- 5. Do karaoke, read, solve puzzles, play board games, etc.*
- 6. Keep a gratitude journal. Writing down three things you are grateful for every day. Congratulate yourself and others on having a "MEGA DAY".*
- 7. Take out time for Reading, Music, Dance, Singing, and Laughing.*
- 8. Set Challenges- Encourage each other to take up new activities and complete them.*
- 9. Be Creative with Space- Find a corner in the house and allow yourself and your children to decorate it.*
- 10. Involve your children in household activities also.*
- 11 Learn foreign languages through online courses available.*
- 12. Take them for outing to place of their interest & let them explore the world.*
- 13. Communicate with your children and let them know you fully.*

*As parents you are requested to keep a watchful eye on your children and stop them from engaging in :*

- 1. Excessive use of mobile phones.*
- 2. Playing online games*
- 3. Spending a lot of time alone away from family members.*

**Be Safe**



*We're doing our homework to make sure we're prepared. - Gary Gait*

*Thomas A. Edison says "Genius is one percent inspiration and ninety-nine percent perspiration. As a result, a genius is often a talented person who has simply done all of his homework."*

**General Instructions:**

- 1. Do your Homework in a separate 3 in 1 notebook (classes 1 and 2) & cover it properly.*
- 2. Do your Homework in separate 10 rs/- notebooks subject wise (classes 3 to 12) & cover it properly.*
- 3. Mention your details on your holiday's homework.*
- 4. Start your homework from very beginning of holidays to avoid stress and ensure high quality work as it has been assigned.*
- 5. Dedicate a specific time each day on your homework.*
- 6. Choose a dedicated area that is free from distraction to focus on your work.*
- 7. Present your homework in a neat and logical manner.*
- 8. Use clear handwriting, proper formatting and consistent spacing.*

**Note:**

- The best holiday homework of each class will be awarded.*
- It is a part of internal assessment for the final examination.*

**WARM REGARDS**

**PRINCIPAL**

## GENERAL INSTRUCTIONS

1-THESE HOLIDAY ASSIGNMENTS COMPRISE OF THREE SECTIONS

A-ART INTEGRATED PROJECT ON LAKSHADWEEP ISLAND (BROCHURE): INDIVIDUAL PROJECT

B-ART ACTIVITY TO BE DONE IN PORTFOLIO

C-VALUE BASED ASSIGNMENT (HAND MADE DIARY)

## ART INTEGRATED PROJECT

1. Make a Captivating Travel Brochure on **LAKSHADWEEP ISLAND** in hard copy OR softcopy.

A travel brochure is a promotional material that advertises a destination, sight - seeing attraction, or tour activity. Brochures can both inspire tourists to plan a trip as well as educate them about sights to see and things to do after they've arrived at their place of interest.

### How to Create A Travel Brochure Step by step

1. Use a Colour Scheme that Complements Your Imagination

2. Write Descriptive Copy

3. Include Geographical Details and Contact Info

When designing a brochure, you should know where each piece of information should be placed. What to put in the back of the brochure, on the cover, and so on. In the next paragraphs, Here are some must-have elements that your brochure should contain. Let's take a look at them.

1. A catchy headline

2. Purposeful visuals

3. Concise text

4. Branding elements

5. Contact information

6. Call to action

2. **FUN 'N' LEARN ACTIVITY**



Do any one of the following (Paste it in Portfolio)

Use any medium of expression (poem, song, video, article, story, radio show, dialogue writing, drama) to convey information about Lakshadweep islands. You can talk about its history, heritage and modern development.

## 3. VALUE BASED ASSIGNMENT

### Being innovative

How To do:

Create your own hand made diary in which you will write daily about one of your virtuous act which you will do, like - helping your mother, helping physically disabled people or under privileged. (80-100words)

Parameters: Creativity, Content, Authentication

## Hindi

निम्न कार्य ए-4 शीट पर कीजिये ।

- 1. अनुस्वार /अनुनासिक 2.विराम चिन्ह 3.संधि 4.उपसर्ग प्रत्यय (उदाहरण परिभाषा और पहचान )
- कोई दो सामाजिक और देशभक्ति नाटिका नेट से सर्च करके लिखिए ।
- रहीम के किन्ही दो दोहों का गायन करके अपनी वीडियो बनाये ।
- दुख का अधिकार पाठ पर बुद्धिया, बनिया भगवाना पर लघु एक्ट करके यूट्यूब वीडियो बनाये ।
- पाठ ऐवरेस्ट मेरी शिखर यात्रा पाठ पर पीपीटी बनाये ।
- अप्रैल से मई तक करवाया ज सारा कार्य याद करे ।

# MATHEMATICS

## Chapter-1

### (Number System)

1. If  $a = \frac{\sqrt{2}+1}{\sqrt{2}-1}$  and  $b = \frac{\sqrt{2}-1}{\sqrt{2}+1}$ , then find the value of  $a^2 + ab + b^2$ .
2. Represent  $\sqrt{3}$  on the number line.
3. If  $2^{x+3} = 32$ , then what is the value of  $3^{6-x}$ ?
4. Express  $0.\overline{23} + 0.\overline{23}$  as a single decimal.
5. Find five rational numbers between  $\frac{3}{5}$  and  $\frac{5}{6}$ .

## Chapter-2

### (Polynomials)

1. Factorize:  $2\sqrt{3}x^2 + x - 5\sqrt{3}$ .
2. Find the value of  $x^3 - 8y^3 - 36xy - 216$ , when  $x = 2y + 6$ .
3. If the polynomials  $2x^3 + ax^2 + 3x - 5$  and  $x^3 + x^2 - 2x + a$  leave same remainder when divide by  $x - 2$ , find the value of  $a$ .
4. Prove that:  $\frac{0.96 \times 0.96 \times 0.96 + 0.04 \times 0.04 \times 0.04}{0.96 \times 0.96 - 0.96 \times 0.04 + 0.04 \times 0.04} = 1$
5. If  $x - \frac{1}{x} = 2$ , find  $x^4 + \frac{1}{x^4}$

## Chapter-3

### (Coordinate Geometry)

1. In which quadrant or on which axis do each of the points  $(-2,4)$ ,  $(-4,-5)$ ,  $(-1,0)$ ,  $(4,8)$ ,  $(-3,-5)$ ,  $(1,0)$  and  $(1,2)$  lie? Verify your answer by locating them on the cartesian plane.

## Chapter-4

### (Linear equation in two variables)

1. Draw the graph of linear equation  $8x - 3y + 4 = 0$ .
2. The cost of milk in a city is Rs. 40 per litre. Write an equation with  $y$  representing the number of litres and  $x$  representing the total cost. Also, draw its graph.
3. Draw the graph of the equation  $2x - 3y = 6$ .

### Activity:

- Draw a concept mind map on the topic polynomials on A4 sheet.
- Prepare a square root spiral on a chart by cutting and pasting of the color paper.

## SOCIAL SCIENCE (087)

All students have to compulsory DO any One social science project on the following topics:

### Disaster Management: -

- Introduction
- What is a disaster?
- Types of Disasters
- Preparedness
- Disaster management cycle (Pre- disaster, disaster occurrence & post disaster)

**Heritage India:** - (Take up a case study and make your project for eg: History of Indian Parliament house, Rajpath to Kartavya Path)

### General Instructions: -

1. The Project must be handwritten, done on separate loose sheets neatly.
2. The file should contain the following: -
  - a) Name, class and section of the student on the cover.
  - b) The file should have one page each for:
    - i) Acknowledgement
    - ii) Preface
    - iii) Main content
    - iv) Bibliography

### ART INTEGRATED PROJECT

1. Prepare Scrap book on the different Economic activities performed by the peoples of Lakshadweep islands.

## Activities

- Student fill 5 world map (related to French revolution, Russian revolution, first world war (1914-1918), second world war (1939-1945) & Europe continent.
- Students fill India's political map (all states and capital)
- (All U.T.)
- Physical map (Himalayas range)

Revise these chapter which are given below: -

Ch. 1 (history) The French revolution

(Geography) ch.1 India- size & location

Ch.2 (The physical features of India)

Civics: - Ch.1 What is Democracy? Why Democracy?

Economics: - The Story of village Palampur

## PHYSICS:

1. What is uniform and non- uniform motion ?
2. Differentiate between distance and displacement.
3. Define acceleration and state its SI unit.
4. Differentiate between Speed and velocity.
5. A particle is moving in a circular path of radius r. What would be the displacement after half a circle?
6. Under what conditions can a body travel a certain distance, and yet its resultant displacement be zero?
7. A train is travelling at a speed of 60 km/ h. Brakes are applied so as to produce a uniform acceleration of  $-0.5 \text{ m/s}^2$ . Find how far the train will go before it is brought to rest.
8. The velocity changes from 45m/s to 60m/s in Three minutes. What is its acceleration?
9. A Truck covers 30km at a uniform speed of 30km/hr. what should be its speed for the next 90km if the average speed for the entire journey is 60km/h?
10. Draw on distance time and velocity time graph and write their significance.

## CHEMISTRY:

1. Solids are generally very heavy while gases are light. Explain.
2. Kelvin scale of temperature is regarded as better than the Celsius scale. Assign reason.
3. What are the factors which are responsible for bringing a change in the physical state of a substance?
4. Is dry ice same as the normal ice? If no, then differentiate between dry and ordinary ice.
5. How will you differentiate between a gas and a vapour?
6. What are the essential requirements of a substance to be categorized as a matter?
7. What are the essential requirements of a substance to be categorized as a matter?
8. Solid ice floats on water. Justify the statement.
9. Why can we split a piece of chalk into tiny particles on hammering but not iron?
10. Why is liquid classified as a fluid?

## BIOLOGY:

1. What is Endocytosis?
2. Why is the Golgi apparatus called the secretory organelle of the cell?
3. Why do the animal cells not have cell wall?

4. If you are provided with some vegetables to cook, you generally add salt into the vegetables. After adding salt, vegetables release water. Why?
5. Differentiate between diffusion and osmosis.
6. Differentiate between rough and smooth endoplasmic reticulum. How is endoplasmic reticulum important for membrane biogenesis?
7. What is membrane biogenesis? How is plasma membrane formed during this process?
8. What are the functional differences between a plasma membrane and cell wall?
9. Draw a neat diagram of plant cell and label it.
10. Name a device that measures distance travelled by automobiles. A body travels a distance of 15 m from A to B and then moves a distance of 20m at right angles to AB. Calculate the total distance travelled and the displacement.

**Note: Make a concept map on the topic Cell: Fundamental unit of life**

## **COMPUTER**

### **Information Technology (402)**

**Learn and Complete all that has been taught till now.**

#### **UNIT – 1 Introduction to IT and ITeS Industry**

Chapter 1. Applications of IT and ITeS Industry

#### **UNIT – 2 Data Entry and Keyboarding Skills**

Chapter 2. Using data entry tools

Chapter 3. Getting Started with typing Software

2. **Activity** : Positioning of Fingers on the Keyboard
  - : Rules to Learn Typing and Proper Posture
  - : Rapid typing Software
3. **Project Work from Chapters**
  - Applications of Information Technology
  - Information Technology Enabled services (ITes)
  - IT in the Government and Public Sector
4. Introduction to Internet, Applications of Internet, Websites and Web Pages, Email Accounts, Sending and Receiving Email, BLOG, TWITTER, FACEBOOK, YOUTUBE, WHATSAPP, DIGITAL INDIA (Note : It must be for every student to prepare a Project file.)
4. **Make a PowerPoint Presentation on the topic :-**
  - Keyboard and Keyboarding Skills