

DAV CENTENARY PUBLIC SCHOOL, PASCHIM ENCLAVE, NEW DELHI 110087

CLASS IX HOLIDAYS HOMEWORK (2025-26)

**THEME: SUSTAINABILITY MILESTONES AND FUTURE COMMITMENTS**



Dear Parents/Students,

“Summers are time to Relax, Refresh and Restore!!” Here’s the most awaited time duration of the year when students get opportunity to take a break from the regular school routine, explore and experience new adventures and learn new skills using their creative caps. The school wish all its lovely students a very happy, exciting and enriching summer vacation!!

Here are few guidelines for students to utilize this time in a constructive manner:

- ❖ Students must stay hydrated, stay indoors during peak hours of sunshine and consume healthy food, to stay fit and fine.

- ❖ Give priority to “Family Time”. Spend time with parents, grand parents and relatives to strengthen the bond and nurture the valuable relationships of life.
- ❖ Try to be “Near Nature”. Enjoy the early mornings, chirping of birds, blooming flowers in gardens. If possible, visit beaches, hills, lakes etc. and admire the scenic beauty of nature.
- ❖ **LIMIT YOUR SCREEN TIME**. Try to minimize the time spent with gadgets. This is important to ensure sound mental health and intellectual growth of students.
- ❖ Read books. Reading of books provide scope for exponential growth of intellect. **(PARENTS MAY GET THE BOOKS ISSUED FROM LIBRARY, DURING SCHOOL HOURS, DURING SUMMER VACATIONS)** Suggestive list of books to be read include:
  - Frankenstein by Mary Shelly  
<https://www.paps.net/cms/lib4/NJ01001771/Centricity/Domain/2253/Frankenstein%20-%20Abridged%20Version.pdf>
  - Wings of Fire by APJ Abdul Kalam  
<https://courseware.cutm.ac.in/wp-content/uploads/2020/05/Wings-of-Fire-An-Autobiography-of-APJ-Abdul-Kalam.pdf>
  - Three men in a Boat by Jerome k Jerome  
[https://cbseacademic.nic.in/web\\_material/doc/Novel-Three Men in a Boat.pdf](https://cbseacademic.nic.in/web_material/doc/Novel-Three_Men_in_a_Boat.pdf)
  - स्मृति की रेखाएं
  - बकरी
- ❖ Strengthen your academics. Students must utilize this time to study and strengthen their concepts and bridge the academic gaps, if any.

**Please note:**

- Trans-disciplinary research based project work has been given in Class V based on the theme – **“SUSTAINABILITY MILESTONES AND FUTURE COMMITMENTS”**. This project work will be assessed and students will be given due credit for the same in Internal Assessment.
- Holidays Homework must be done on A4 size sheets (as per the colour scheme given below).

English – **PINK**  
 Hindi – **SKY BLUE**  
 Sanskrit – **ORANGE**  
 Mathematics – **PURPLE**  
 Science – **GREEN**  
 Social Science – **YELLOW**  
 AI/IT – **WHITE**

➤ Holidays Homework should be first submitted to subject teachers for checking. Later, Holidays Homework is to be compiled together in the given format as Trans-disciplinary Project:

1. All A4 sheets of Holidays Homework together to be compiled in ONE RING BINDER FILE.
2. File to be covered with hand-made sheet. The file cover should be designed creatively by the student.
3. File should include Index, Acknowledgement, Certificate, all subjects sheets (in order – English, Hindi/Sanskrit, Mathematics, Science and Social Science) and REFLECTION SHEET.
4. REFLECTION SHEET Format is given below:

My Name, Class & Section	.....
What I liked most about this trans-disciplinary project?	.....
Challenges that I faced while doing this project....	.....
How I overcame the challenges faced?	.....
What knowledge/insights I gained from this project?	

## ENGLISH

 **Dialogue Writing:**

Discussion on benefits of adopting sustainability life style and eco-friendly practices in life (6-6 dialogues each)

 **Collage Making:**

Quotes in a beautiful design & with a motivating headline related to recycling plastic & paper, energy conservation and eco-friendly products

## हिंदी

विषय – सतत विकास

शीर्षक - सतत विकास : एक बेहतर भविष्य की ओर

- पृष्ठ एक –सतत विकास का अर्थ

- पृष्ठ दो –सतत विकास के लक्ष्य
- पृष्ठ तीन – सतत विकास का महत्व
- पृष्ठ चार –सतत विकास का शैक्षिक क्षेत्र में लाभ
- पृष्ठ पाँच – सारांश

#### रचनात्मक लेखन

- सतत विकास के लक्ष्य SDG से संबंधित खबरों को एकत्रित करके A4 साइज शीट पर चित्र सहित समाचार पत्र का निर्माण कीजिए ।
- सतत विकास के लक्ष्य के किसी भी एक लक्ष्य पर आगामी भविष्य में प्रकृति तथा मानव कल्याण के विकास और समाज के बदलते स्वरूप पर मित्र के साथ हुई बातचीत को संवाद रूप में लिखिए
- संधि पर आधारित- एक सुंदर मॉडल का निर्माण कीजिए ।

#### \*सामान्य निर्देश

1. कार्य रचनात्मक और मौलिक होना चाहिए ।
2. सुंदर , आकर्षक तथा शोध प्रक्रिया के आधार पर संपन्न होना चाहिए ।



## MATHEMATICS

### "Balancing the Screen and the Study: A Study of Screen Time vs. Study Time in Teenagers"

In today's digital age, screens have become an essential part of our daily lives, especially for teenagers. This project aims to explore how Class 9 students balance their screen time with study time during the summer holidays and understand its impact on learning and productivity.

**TASK 1.** Collect the data for a month, about your "SCREEN TIME" and "STUDY TIME" in the following table:

Date	SCREEN TIME (In hours and minutes)	STUDY TIME (In hours and minutes)	DIFFERENCE (Study Time- Screen Time)	RATE by giving appropriate EMOJI
E.g. 30/5/2025	2:15	1:45	- 0:30	😞

### EMOJI KEY

😞 Keep it up  
improvement

😊 Satisfactory

😞 Below satisfactory

😞 Needs

**NOTE: The above data should be verified by parents and then appropriate EMOJIS should be put in the last column.**

**TASK 2:** Make FREQUENCY DISTRIBUTION TABLES (Grouped or Ungrouped) for each column.

**TASK 3:** Represent the FREQUENCY DISTRIBUTION TABLES by appropriate GRAPHICAL REPRESENTATIONS.

(Line Graph/Bar Graph/ Histogram/ Pictograph)

**TASK 4:** Write a SUMMARY REPORT on the above covering following points:

- How many hours do I spend daily on screen-based activities (TV, mobile, gaming, etc.)?
- How many hours do I study daily during the holidays?
- Do I study more or less on weekends compared to weekdays?
- Do students who spend more time on screens tend to study less?
- How do I feel after long screen usage — tired, distracted, or relaxed?
- What are some tips to reduce screen time and increase focus on study time?

**TASK 5:** The following activities will be marked in internal assessment.

(i) **MULTIPLE ASSESSMENT ACTIVITY**

Visualise the following using successive magnification: (both correct to 4 places of decimals)

(a)  $\frac{25}{11}$  and (b)  $\pi$

(ii) **ART INTEGRATED ACTIVITY**

Visualize any object through SPIRAL OF THEODORUS like: Snail Shell, Peacock feather etc.

**“Mathematics is not just about numbers and equations; it’s about patterns, logic, and the art of creating beauty through structure.” - Anonymous**

## SCIENCE

**Tagline: "Sustainability Milestone and Future Commitments" Theme : Water - The lifeline of our planet "Every drop counts, every action matters –**

Let's work together towards a water-efficient future!" Water is one of the most critical natural resources for life on Earth. Understanding its importance, usage, conservation, and the challenges surrounding it is crucial for building a sustainable future.

Assignments: 1. Investigative Report (5 Marks) Prepare a short report on the water supply system in your locality. Including : ● Sources of water ● Methods of distribution ● Common issues faced (pollution, scarcity, leakage) ● Any sustainable practices being used ● Science behind water purification (Explain any 2 scientific methods used in water purification. Note : Use diagrams wherever possible

### **Model Making**

Create a simple working model or 3D representation of: ● A rainwater harvesting system / A water filtration plant using household items.

2. Creative Canvas Design a canvas titled "Save Every Drop", highlighting innovative ways to conserve water at home, school, and in the community.

3. Future Commitment Letter Write a personal letter to your future self, titled "My Water Promise", committing to at least three sustainable water habits you will practice from now on.

**Submission Guidelines:** ● Neatness, originality, and creativity will be considered . ● Use A4 sheets or your science notebook for written work. ● Bonus points will be awarded for including real-life photos.

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## SOCIAL SCIENCE

### Task -1

#### Disaster management

Prepare a Project Report on Disaster Management and Highlight the following:

- Introduction( Definition of 'Disaster', Disaster Management Cycle,Types of Disasters, vulnerability and risk, Differentiate between hazard and disaster). (1-2 pages)
- **A.** Natural Disaster- Earthquake, Cyclones, Flood, Drought, Landslides
- **B.** Any man – made disaster -Biological, Physical and Chemical (2-3 pages)
- Write a case study on Myanmar Earthquake 2025 or Wildfire in Los Angeles and Texas, Oklahoma (7 pages)
- Meaning, causes, DO's and Don'ts, Prevention and mitigation measures. (2-3)

**\* The projects prepared should be made from eco-friendly products without incurring too much expenditure. The Project Report should be handwritten by the students themselves and comprise of not more than 15 foolscap pages.**

### Task 2

Prepare miniature model on Renewable energy solutions / windmill / solar panel for sustainable cities

### Task 3

Practice sheet civics

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## SANSKRIT

**विषयः** सतत- विकासस्य उपलब्धयः भविष्यस्य च प्रतिबद्धताः

**मुख- पृष्ठः** - प्रदूषणस्य निवारणम्

1 प्रदूषणस्य दूरीकर्तुं पञ्च वाक्यानि लिखन्तु ।

2 स्वगृहे एकस्य पादपस्य आरोपणं कुर्वन्तु ।

अपि च पादपारोपणं कुर्वन् / कुर्वन्ती तस्य छाया चित्रमपि स्थापयतु ।

**निर्देशाः** -

1 कार्ये सुन्दरता मौलिकता भवेत् ।

2 कार्ये स्पष्टता भवेत् ।

3 लेखन- कार्ये सुन्दरं स्वच्छं भवेत् ।

एक- संस्कृत- पत्रिकायाः निर्माणम् ।

प्रदत्त -कार्यप्रपत्राणि अपि कुर्वन्तु ।

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## ARTIFICIAL INTELLIGENCE/INFORMATION TECHNOLOGY

**ARTIFICIAL INTELLIGENCE:** Make a project of AI on any of the SDGs. Follow the steps given in the class.

**INFORMATION TECHNOLOGY:** Design a presentation on the topic “use of computers in daily life” using open Office Impress or Microsoft PowerPoint.