



Summer Holidays are a time that provides opportunities to students to relax, rejuvenate, learn new skills, and inculcate family values amongst them. The vacay brings along hours of happiness, days of fun and ample scope to indulge in and explore life skills such as cooking, cleaning, managing money and organizing time. To facilitate optimum utilization of children's time and facilitate research-based learning, holidays homework has been crafted by experienced minds of the school faculty. This homework is trans-disciplinary in nature and aims to ensure that students are able to learn at self-pace and gain insights amongst them about various aspects of the theme, as given below:



The Viksit Bharat programme was launched by the Prime Minister in December last year. It aims to give a platform to the youth to “contribute thoughts to the vision of Viksit Bharat @2047 — the idea of a developed India by 2047, the 100th year of Independence”.

Holidays allow children to have quality family time, which is equally important for their growth and development, as is learning in school. Under the Parent-Teacher Partnership programme run by DAV Centenary Public School, here are some guidelines for the parents, keeping in view the interest of students.

PROPOSED TIPS FOR PARENTS:



- Eat meals with children.
- Involve children in cooking food.
- Indulge in Digital Detoxing. Parents and children both to use gadgets to minimal extent.
- Visit grandparents' house and allow them to spend time together.
- Take them to your workplace, if possible, let them realize how hard you work to earn for the family.

- Visit local markets.
- Allow children to visit parks, play outdoor games in evening time.
- Read story books/novels with them, play folk songs, indulge in newspaper, magazines and comic reading with them.
- Avoid junk food and feed them the healthier and tastier delicacies.
- Let them help you in household chores.
- Meditate together. Thank Almighty for giving you such amazing children.

GUIDELINES FOR STUDENTS:

Dear Students, Please find below important guidelines for doing your holidays homework:

- All tasks of holidays homework (except for 3D models, if any), to be done on A4 size sheets.
- Please follow the colour scheme for subjects. Use the sheets of given colour for doing different subjects' homework:
 - English – PINK
 - Hindi – BLUE
 - Mathematics – PURPLE
 - Science – GREEN
 - Social Science – YELLOW
 - Sanskrit & Moral Education – ORANGE
 - Ai/Computers/Art - WHITE
- All subjects' Holidays Homework to be compiled in ONE RING BINDER FILE. (after checking of sheets done by subject teachers)
- File should be covered properly and should have the information given below on the cover:
Name of the student, Class & Section, Roll Number, HOLIDAYS HOMEWORK, Session: 2024-25
- The first sheet of the file should have following information:
Name of the student, Class & Section, TRANS-DISCIPLINARY PROJECT: THEME – VIKSIT BHARAT
- Second Sheet should include Index. Index to have following columns;
S.No., Name of Subject, Particulars, Page Number, Teacher's Signature & Remarks
- In the end, the students must mention Bibliography, including the sources from where information was gathered.
- Last sheet of holidays homework should be REFLECTION SHEET. The format of Reflection Sheet is given as under:

SELF-REFLECTION SHEET			
	YES	NO	PARTIALLY
Did I enjoy in summer holidays?			
Did I spend time with family?			
Did I learn something new while doing the holidays homework?			
Was the homework interesting?			

The best part of holidays homework (trans-disciplinary project) was -

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.....

.....

.....

This is what I learned after doing the holidays homework (trans-disciplinary project):

- 1.....
- 2.....
- 3.....
- 4.....

Note: Students will submit sheets of Holidays Homework to subject teachers, in separate files / folders.

Compilation of all subject sheets into one RING BINDER FILE will be done by students, after homework is checked by teachers and returned to them.

ENGLISH

Theme: Journey of our Railways-Viksit Railways

✱ **Diary Entry:**

You have planned a visit to a historical city like Agra, Jaipur etc. by the prestigious Vande Bharat train of Indian railways.

Write a diary entry regarding your experience of travelling in the modern Indian train.

Support the write up with the beautiful illustrations describing your journey.

✱ **CARTOON STRIP:**

Do research on the evolution of Indian railways. Prepare a creative cartoon strip on the topic: 'Fascinating journey of Indian railways' for the school magazine on A-4 size sheet.

MATHS

Task 1 : India has a very vast railway network and there are many trains running on various routes . Given below are the three famous railway routes of India, check out various trains moving on these routes and time taken by given trains to cover the distance. Write the information collected in tabular form as shown below: (5 trains for each route)

Route 1: DELHI TO MUMBAI	
Name of train	Time taken (in hours)
1.PUNE DURNTO EXP	
2.MMCT DURONTO	
3.YNRK KCVL EXP	
4.BDTS FESTIVL SPL	
5.NZM PUNE AC SPL	

Route 2 : DELHI TO SRINAGAR	
Name of train	Time taken (in hours)
1.BDTS SVDK SF SPL	
2.JHELUM EXPRESS	
3.ALI JAT EXPRESS	
4.JAMMU RAJDHANI	
5.UTTAR S KRANTI	

Route 3 : DELHI TO AHMEADABAD	
Name of train	Time taken (in hours)
1.DEE RJT EXPRESS	
2.ASHRAM EXPRESS	
3.SARVODAYA EXP	
4.BDTS GARIB RATH	
5.UTTARANCHAL EXP	

Make a line graph for each route showing time taken by different trains to cover the distance.

Task 2 : Collect the following data on fastest trains of India(at least 5) and make a bar graph representing their maximum speed while moving .

Name of the train	Maximum speed
1.	
2.	

LINKS FOR REFERENCE :

1. <https://www.makemytrip.com/railways/delhi-mumbai-train-tickets.html>
2. <https://www.railofy.com/irctc-train-tickets/new%20delhi-to-srinagar-trains>
3. <https://www.goibibo.com/trains/delhi-to-ahmedabad-trains/>

Note : Paste relevant colorful pictures for each task .

हिंदी



विषय : विकसित भारत
शीर्षक : रेलवे की विकास यात्रा

***शोध कार्य – ग्रीष्मावकाश गृहकार्य को स्कैप फाइल में करें |**

- 1) पिछले पाँच वर्षों में हुए भारत में रेलवे के क्षेत्र में हुए बदलाव पर शोध कार्य – विभिन्न बिंदुओं पर जानकारी एकत्रित की जाए-
 - 1) भारत का रेलवे ढाँचा – भारत का स्थान
 - 2) पहली वंदे भारत की शुरुआत
 - 3) मुंबई – अहमदाबाद बुलेट ट्रेन – वर्ष 2026 में शुरू
 - 4) मेड – इन – इंडिया बुलेट ट्रेन |
 - 5) रैपिड रेल – नमो भारत
 - 6) नए रेलमार्ग
 - 7) अन्य देशों से जोड़ती रेलें
 - छात्रों द्वारा विभिन्न बिंदुओं पर शोध किया जाएगा तथा चित्र सहित वर्णन किया जाएगा |
 - 2) IRCTC द्वारा लक्षद्वीप की यात्रा के लिए एक यात्रा कार्यक्रम (ITINERARY) का निर्माण की जाए |
- ITINERARY निर्माण हेतु सहायता लेने के लिए निम्नलिखित लिंक का प्रयोग किया जा सकता है

[Lakshadweep Travel Brochure | Travel Brochure | My School Project \(youtube.com\)](#)
[Lakshadweep travel brochure || class 10 sst project || Fun Arts With Me \(youtube.com\)](#)
[How to make easy travel brochure/brochure \(youtube.com\)](#)
<https://www.youtube.com/watch?v=ARIhshQf8v>

[HOW TO MAKE A BROCHURE FOR SCHOOL PROJECT □ HANDMADE TRIFOLD BOOKLET FOR STUDENTS \(youtube.com\)](#)

SCIENCE

“Journey of our railways..... Viksit Railways”

“Railways are the arteries of progress, connecting distant lands, cultures, and dreams; weaving the nation together. They carry not just cargo and passengers, but also the echoes of history and the promise of a shared future.”

Citing the importance of railways the students will prepare a report file which may include the following points-

- a) History of Indian Railways.
- b) Types of trains - Cargo, Passenger, Metro, Monorailetc
- c) Extent of coverage - Then and Now.
- d) Changes in technology over the years - Engines, Tracks, Ticketing and Safety features.
- e) Evolution of purpose of railways over time .(Special focus on role of railways in current times.)
- f) Manufacturing of Engines, Bogies, Tracks and Security systems in India.

SOCIAL SCIENCE

Task 1: Minerals and Energy Resources

Make a project file on the uses of various minerals and energy resources along with their distribution in the world. Steps to conserve them, highlight with maps, data images will be used in the files.

Task 2: Viksit Bharat (Viksit Railways)

Make a Calendar by gathering the information about railways since 1850's till now. Students will make calendar including :

- Information about key milestones, technological advancements, and significant events that shaped the Indian Railways.
- Can include important stations, landmarks, and geographical features.
- Can research how railways have influenced the development of cities and regions connected by Viksit Railways.
- Add pictures after visiting the Railways museum.

***STEM Challenge*:** Challenge students to build a model train or a section of railway track using recyclable materials.

संस्कृतम्

- विषयः** - विकसितं भारतम्
मुख -पृष्ठः - विकसित - भारते रेलयानस्य स्वरूपः
पृष्ठः प्रथमः - भारते रेलयानस्य प्रारम्भः कदा अभवत् ?
(तत्कालीनरेलयानस्य चित्रसहितम्)
- अग्निपेटिकासहायतया रेलयानस्य निर्माणम् कुरुत।
(WITH THE HELP OF MATCHBOX)

निर्देशाः -

- कार्यं रचनात्मकं , मौलिकं च भवितव्यम् ।
- प्रदत्त - कार्यप्रपत्राणि कुर्वन्तु , संस्कृतस्य पञ्जिकायां च स्थापयन्तु ।

NAITIK SIKSHA

1. वैदिक धर्म (आर्य समाज) और किसी अन्य भारतीय धर्म की धार्मिक मान्यताओं पर 200–250 शब्दों में एक लेख लिखिए।
2. पांच भिन्न-भिन्न प्रकार के आसन करके उन पर अपने विचार साझा करते हुए एक स्ट्रैपबुक का निर्माण कीजिए।
 - प्रत्येक आसन करते हुए फोटोग्राफ।
 - उनके बारे में अपने विचार।
3. आर्य समाज द्वारा किए गए कार्यों की सूची बनाइए।

***सम्पूर्ण कार्य A4 साइज शीट पर किया जाएगा।**

ART EDUCATION

1. Complete Step by Step book from page no. 1 to 15.
2. Make a 3d rangoli design on MDF board or ply board. Size should be 16" X 16".
3. Make a butterfly with rice, tissue paper etc. in Mandala art.

ARTIFICIAL INTELLIGENCE

Title: "AI Explorer: Discovering the Wonders of Artificial Intelligence"

Objective:

- Introduce students to the concept of Artificial Intelligence (AI) in a fun and engaging way.
- Encourage critical thinking and creativity in exploring AI technologies.
- Foster interest in STEM (Science, Technology, Engineering, and Mathematics) fields.

Activity Instructions:

1. Introduction to AI:
 - Begin by explaining what AI is in simple terms. Use examples from everyday life, such as virtual assistants (like Siri or Alexa), recommendation systems (like Netflix suggestions), and self-driving cars.
 - Discuss the basic idea that AI involves machines learning from data and making decisions or predictions based on that learning.
2. AI Scavenger Hunt:
 - Create a list of AI-related objects, concepts, or technologies for students to find or research over the summer. Examples could include:
 - A picture or description of a robot
 - A news article about AI in healthcare
 - A video demonstrating how AI is used in gaming
 - A list of popular AI applications or tools
 - An interview with someone working in the field of AI
 - Encourage students to be creative in their findings and to think beyond the obvious examples.
3. AI Project:
 - Have students choose one aspect of AI that interests them the most and create a project around it. This could be:
 - **(For Class VIII students)** Designing a simple chatbot using online platforms like ChatGPT.

Remember to provide support and encouragement throughout the summer, and emphasize that the goal is to have fun while learning about the exciting world of Artificial Intelligence!