



DELHI INTERNATIONAL SCHOOL EDGE
Holiday Homework 2024-25
Class - X



Dear Students,

As the summer holidays approach, we hope you're looking forward to a well-deserved break filled with relaxation, fun, and plenty of sunshine! Before you dive into your vacation plans, we wanted to share some holiday homework to keep your minds engaged and active during the break.

Attached to this message, you'll find a set of assignments carefully crafted to reinforce and extend your learning beyond the classroom. These activities are designed to be enjoyable yet stimulating, offering you the opportunity to explore new ideas, develop your skills, and enrich your knowledge in various subjects.

While we encourage you to make the most of your time off, we also believe that learning is a lifelong journey that doesn't stop when the school bell rings. Whether you're travelling to exotic destinations, spending time with family and friends, or simply relaxing at home, we encourage you to find moments to engage with your holiday homework.

Remember, learning can take many forms, and the summer holidays present the perfect opportunity to discover new interests, pursue personal passions, and embark on exciting adventures. So, whether you're solving math puzzles, reading captivating stories, conducting science experiments, or exploring the wonders of nature, we encourage you to approach your holiday homework with enthusiasm and curiosity.

As you tackle each assignment, take pride in your efforts and celebrate your achievements, no matter how big or small. And if you have any questions or need assistance along the way, don't hesitate to reach out to us – we're here to support you every step of the journey.

Wishing you a summer filled with joy, laughter, and endless opportunities for growth and discovery. Have a fantastic break, and we look forward to hearing all about your adventures when you return!

Enjoy Your Summer Break! 🌞📚

Warm regards,

Class Teacher

English

1. Detailed handwritten report on the forms of movement and dance of Andaman and Nicobar Island along with pictures.

Roll no 1-6 (GROUP A)

Roll no 7-12 (GROUP B)

Roll no 13-18 (GROUP C)

Roll no 19-25 (GROUP D)

- A. Formal, exhibitionistic dance with trained dancers (classical traditions)
- B. Reflection of or challenge to the social, cultural, religious traditions and values (Folk or semi classical or dance drama formats)
- C. Various forms now seen in a theatrical context that have their root in ancient temple dances (ritualistic or festive dancing)
- D. Entertainment (Cinematic/social)

Note:

Include the following in your projects:

1. Cover Page (having the details of the student and the topic as well as the Subject Teacher)
2. Acknowledgement
3. Certificate
4. Project Introduction
5. Body
6. Conclusion
7. Bibliography

*Do not forget to add pictures.

*No repetition or copying of work would be accepted.

*Please don't share your work with anyone.

*No marks will be awarded for a casual approach of completing the work.

2. Movie Review: -

a) Watch the following movies and pen down the critical analysis as per your roll numbers. Details are as follows:

Roll no.-1-7 Freedom writers

Roll no. 8-14 12TH FAIL

Roll no. 15-21 3 Idiots

Roll no. 22-28 The Pursuit of Happyness

Roll no. 29-36 Super 30

Movie review to be done in A-4 size sheets.

- b) Write the synopsis of the movie.
 c) Describe all the five emotions shown in the movie-joy, sadness, anger, disgust and fear.
 Name of the character (emotion)
 Physical appearance.
 Role played by the character in the movie.
 d) Which is your favourite character and why?

3. PORTFOLIO:

PREPARE A PORTFOLIO WITH THE FOLLOWING –

(Prepare a file with A4 size sheets)

Introduction

My strengths

I need to improve on...

My achievements

I have participated in...

The books I have read

The book I wish to read

French

France has produced many famous citizens. The project is to collect photographs of great musicians, with a write-up on their introduction, and all types of musical instruments (photographs/ illustrations) and the artists who play them. (To be done in a file).

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*Do not forget to add pictures.

Hindi

परियोजना कार्य

सामान्य दिशा निर्देश-

- प्रथम पृष्ठ व्यक्तिगत परिचय
- द्वितीय पृष्ठ विषय सूची (क्रमांक, विषय, पृष्ठ क्रमांक
- तृतीय पृष्ठ आभार ज्ञापन -
- चतुर्थ पृष्ठ- संदर्भ सूचिका लेखक, पुस्तक आदि का नाम, पृष्ठ संख्या, वेबसाइट का नाम पंचम पृष्ठ

रोल नंबर 1-6 (ग्रुप ए)

रोल नंबर 7-12 (ग्रुप बी)

रोल नंबर 13-18 (ग्रुप सी)

रोल नंबर 19-25 (ग्रुप डी)

(ए) पाठ " हरिहर काका" के आधार पर बताइए कि भारत में वरिष्ठ नागरिकों के स्वास्थ्य, सुरक्षा, सामाजिक सुरक्षा तथा कल्याण को बढ़ावा देने के लिए केन्द्र सरकार 1999 में बुजुर्गों के लिए राष्ट्रीय नीति लेकर आई। उसी तरह अन्य प्रावधानों का उल्लेख करते हुए। **परियोजना फाइल बनाएँ।**

(बी) लक्षद्वीप में रहने वाली जनजातियाँ उनकी भाषा, धर्म, त्यौहार, रीति-रिवाज आदि की जानकारियाँ एकत्रित करते हुए चित्र सहित एक परियोजना फाइल बनाएँ।

(सी) स्वतंत्रता सेनानी, जिन्हें स्वतंत्रता पूर्व ब्रिटिशों द्वारा अंडमान-निकोबार केंद्र प्रशासित राज्य में काला पानी की सजा मिली थी, के बारे में चित्रसहित जानकारी लिखें या डिजिटल विडियो बनाएँ। (कोई पाँच स्वतंत्रता सेनानी)।

(डी) पाठ " डायरी का एक पन्ना" के आधार पर यह स्पष्ट होता है कि आंदोलन में महिलाओं ने भी बढ़-चढ़ कर हिस्सा लिया स्वतंत्रता आंदोलन में निम्नलिखित महिलाओं ने जो योगदान दिया, उसके बारे में संक्षिप्त जानकारी प्राप्त करके लिखिए

- (क) सरोजिनी नायडू
- (ख) अरुणा आसफ अली
- (ग) कस्तूरबा गांधी

Science

Handwritten project on the Following Topic to be Submitted

- Roll no 1-6 - GROUP A
- Roll no 7-12 - GROUP B
- Roll no 13-18 - GROUP C
- Roll no 19-25 - GROUP D
- Roll no 26 - 30 GROUP E
- Roll no 31 - 35 GROUP F

GROUP A Water for all

- An introduction to the Water crisis and road map to overcome it.
- A case study

GROUP B

Forest and Wildlife Management

- Discussion about the Its significance;the Crisis;its Stakeholders.
- A case study

GROUP C

Fossil Fuels and Its Management

- A discussion to fossil fuels and problems associated with it
- An introduction to Carbon neutral future and its road map.
- A case study

GROUP D

Sustainable Development and Living

- An introduction to the need for management of natural resources.
- A road map of reaching Sustainable development Goal (discussion on strategies)- with reference to INDIA.
- Sustainable living
- A Case study

GROUP E

Marine Resource Management:

- Strategies for sustainable fisheries management.
- Impact of plastic pollution on marine ecosystems.
- Restoration of coral reefs and marine biodiversity.
- A Case Study

GROUP F

Soil Conservation:

- Techniques for preventing soil erosion in agricultural land.
- The role of cover crops in maintaining soil health.
- Impact of urban development on soil quality.
- A Case Study

Please Note: Include the following in your projects:

1. Cover Page (having the details of the student and the topic as well as the Subject Teacher)
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Mathematics

Greetings, math enthusiasts! As we move to another academic year and embrace the warmth of summer, it's time to embark on a thrilling mathematical odyssey. This holiday homework gives you an opportunity to explore, discover, and celebrate the wonders of mathematics beyond the confines of the classroom. From designing intricate geometric patterns to solving real-world problems using mathematical modeling, the possibilities are endless. This isn't just about solving equations or memorizing formulas; it's about unleashing your imagination, improving your problem-solving skills, and fostering a deeper appreciation for the beauty and relevance of mathematics in our daily lives.

Part-I (Activity - Fractal Coral Reefs) :

Fractals are geometric shapes that repeat themselves at smaller scales, creating intricate and beautiful patterns. For example (fractals in coral reefs - Image of coral reefs found around the Andaman and Nicobar Islands)



Task: create your own fractal coral reef design using mathematical patterns and principles.

Materials Needed:

- Drawing paper or canvas
- Colored pencils or marker pens etc

Activity Steps:

1. Start with a simple geometric shape, like a triangle or a square, and then repeat and scale it down to create intricate patterns resembling coral formations.
2. Use mathematical concepts such as symmetry, repetition, and scaling to create your designs.
3. Once the design is complete, you can use colored pencils or marker pens to add vibrant colors inspired by the coral reefs found in the Andaman and Nicobar Islands.

Display the finished artworks to showcase the integration of math and art inspired by the natural beauty of the islands.

Part-II (Project file)

Part-A

Make a Project file includes the following :

Cover page
Certificate
Acknowledgment
Background
Objective
Description
Conclusion
Application
Bibliography

Roll no. 1 to 5

Project - World's most mysterious number (π)

Roll no. 6 to 10

Project - Interpretation of trigonometry in real life

Roll no. 11 to 15

Project - Surface areas and Volumes of Cuboids

Roll no. 16 to 20

Project - Magic squares.

Part-B

Project file includes

Cover page
Certificate
Acknowledgement
Background
About the mathematician
Contribution
Conclusion
Bibliography

Roll no. 21 to 25

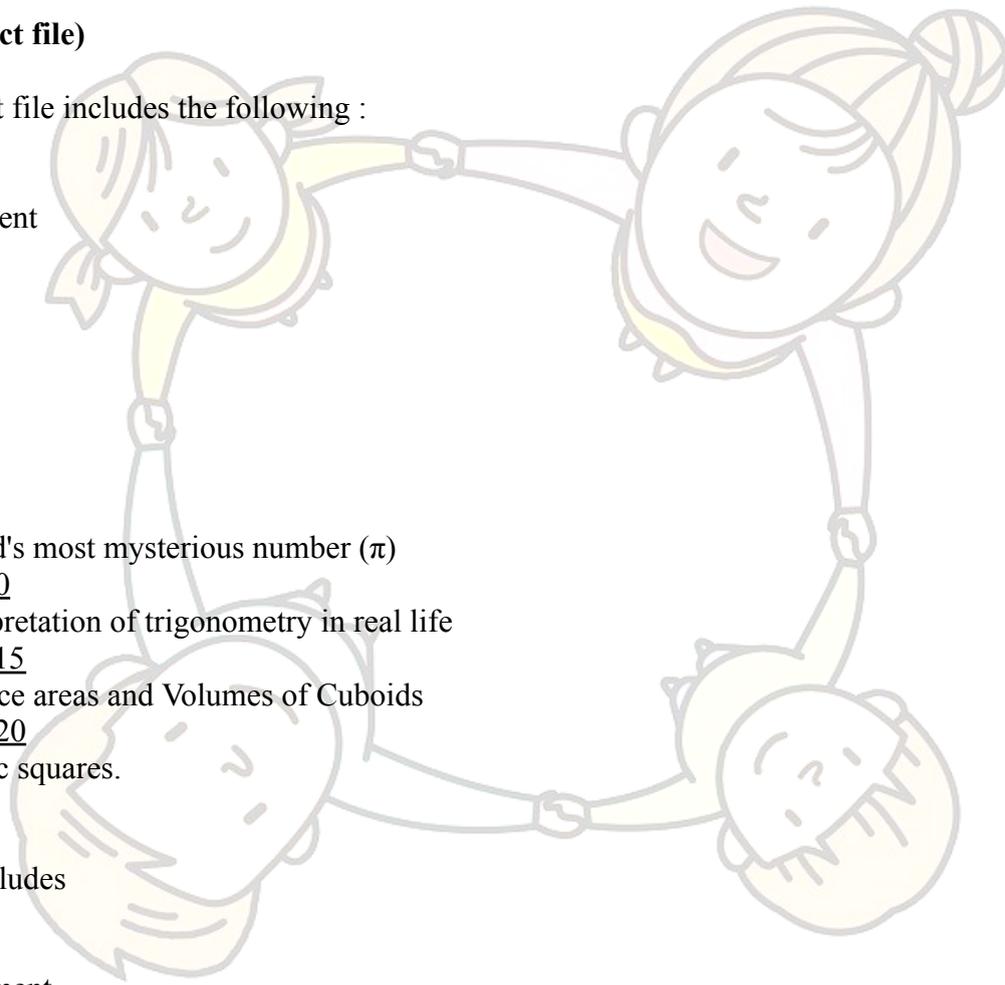
Project - Mathematics in India (Aryabhata- the mathematician and the astronomer)

Roll no. 26 to 30

Project - Chronology of Indian Mathematicians with their contributions

Roll no. 31 to 36

Project - Indian Mathematician and his contribution (Ramanujan)



Part-III (worksheet)

Practice Worksheet Questions

https://docs.google.com/document/d/1sdpIMOOcLw56_PL2Nhu3NfeY3sbW5tUGFTeHZpwQr9w/edit?usp=drivesdk

Social Science

A. PROJECT WORK

1. Every student has to compulsorily undertake any one project on the following topics:

Consumer Awareness

OR

Social Issues

OR

Sustainable Development

2. Objective: The overall objective of the project work is to help students gain an insight and pragmatic understanding of the theme and see all the Social Science disciplines from an interdisciplinary perspective. It should also help in enhancing the Life Skills of the students. Students are expected to apply the Social Science concepts that they have learnt over the years in order to prepare the project report. If required, students may go out to collect data and use different primary and secondary resources to prepare the project. If possible, various forms of art may be integrated in the project work.

3. The Project Report should be handwritten by the students themselves.

Note:

Include the following in your projects:

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*Do not forget to add pictures.

B. Do all the set of important questions assignments given to you in the respective notebooks.

C. For the map work easiness students must practice listing out indian states on political indian Map. Submit 15 maps with Indian states listed out.

AI/IFM

IFM:-

Topic- Stock Exchange

Expected key points-

- Introduction and history
- Indian Stock Exchange

- National Stock Exchange
- Bombay Stock Exchange
- SEBI
- Trading procedure
- Top 25 listed companies
- Portfolio of top 5 companies
- Conclusion

Expected Checklist:

- Introduction of topic/title
- Identifying the causes, consequences and/or remedies
- Various stakeholders and effect on each of them
- Advantages and disadvantages of situations or issues identified
- Validity, reliability, appropriateness and relevance of data used for research work and for presentation in the project file
- Presentation and writing that is succinct and coherent in project file
- Citation of the materials referred to, in the file in footnotes, resources section, bibliography etc.
- project should be of 3,500-4,000 words (excluding diagrams & graphs), preferably hand-written.

AI

Where to do: Submit the Project on the given form link

<https://forms.gle/K7od8OZDLaKGptoW8>

Parameters: Creativity, Originality, Overall presentation

Ques 2: PROJECT BASED ACTIVITY (Show the project all 6 steps in file)

Project Document must consist of:

- Cover Page with the names of the Student along with Class and Section
- Acknowledgement
- Index
- Basic Intro/ About the research topic
- How it Works/ What's happening around
- Research Core Area
- Data Visualizations
- Infographics
- Data Privacy Issues
- Inferences/Conclusions

Citations/References Project Topics:

- Recommendation models - OTT Platforms
- Recommendation models - Food Delivery Giants
- Recommendation models - Shopping Apps
- Script Bots - A chatbot for School
- Sentiment Analysis in Text/Voice
- Big Data - How apps collect data
- ChatGPT - A revolutionary bot
- Autonomous Cars – Future of Transportation
- AI shaking up the Job Market

Project Details:

- The project has to be made with the individual effort of all students.
- The students can select any one or more companies or brands to have focused research.
- The students shall present their project with the help of presentations and other support materials.

Valuable links: For data visualization and finding correlations <https://codap.concord.org/>

For making charts and infographics <https://infograph.venngage.com/>

For Data : [Kaggle: Your Machine Learning and Data Science Community](https://www.kaggle.com/)

***Note: Copied Content from peers will not be accepted**

संस्कृत परियोजना कार्य :-

सामान्य दिशा निर्देश-

- प्रथम पृष्ठ व्यक्तिगत परिचय
- द्वितीय पृष्ठ विषय सूची (क्रमांक, विषय, पृष्ठ -क्रमांक)
- तृतीय पृष्ठ आभार ज्ञापन -
- चतुर्थ पृष्ठ- संदर्भ सूचिका लेखक, पुस्तक आदि का नाम, पृष्ठ संख्या, वेबसाइट का नाम ।

-संस्कृतसाहित्यस्य विकासः वैदिककालात् आधुनिकयुगपर्यन्तं संस्कृतसाहित्यस्य विकासस्य अन्वेषणम्।

महत्त्वपूर्णाः रचनाः, लेखकाः, साहित्यप्रकाराः च प्रकाशयन्तु।

संस्कृत साहित्य के वैदिक काल से लेकर आधुनिक युग तक विकास का अन्वेषण करें तथा इसी संदर्भ में महत्त्वपूर्ण रचनाओं , लेखकों और साहित्य कारों पर प्रकाश डालते हुए परियोजना कार्य तैयार कीजिए :-