DELHI INTERNATIONAL SCHOOL EDGE
HOLIDAY HOMEWORK 2024 - 2025
CLASS XII C

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

Kindly follow the provided link and meticulously adhere to the specific instructions outlined therein while preparing your project.To be completed during the summer vacation period and submitted by July 15, 2024.

https://docs.google.com/document/d/1_fcvdxNFw8YlAU0i05TqvXVlKJDxEe68NfxWL_ekX1E/edit?usp=drivesdk

Political Science

Students have to "Choose one of the topics listed below and create a project based on it."

- 1. NAM- 1961 to present times.
- 2. Division of Germany with special focus on the construction and dismantling of the Berlin Wall.
- 3. CIS-Central Asian Republics
- 4. Disintegration of USSR with special focus on Gorbachev.

- 5. Arab Spring
- 6. Cover the negative as well as positive aspects of relationship between India and the following countries.
  Focus on any one of the following (current updates should be highlighted):
  a) Relationship between India and Russia
  b) Relationship between India and China
  c) Relationship between India and Pakistan
  d) Relationship between India and Bangladesh

- 7.ASEAN
- 8. European Union and BREXIT
- 9. BRICS
- 10. SAARC
- 11. India's Nuclear Policy
- 12. United Nations with focus on India's candidature in Security Council.
- 13. UN Agencies – UNICEF, UNESCO, WHO
- 14. Pandemics: Covid 19- Its global impact (focus on worldwide cooperation and preparedness along with controversies (please collect newspaper clippings for the same)
- 15. Partition of India-Theory behind it and its legacy
- 16. Comparison between NITI AAYOG and Planning Commission and their contribution in India's Development.
- 17. Election 2019- Rise of BJP and Downfall of Congress (1989-2019).
- 18. Emergency – A blot on Indian Democracy
- 19. NDA III and NDA IV – Social and Economic welfare programmes

Objectives-To enable students to probe deeper, initiate action and reflect on knowledge and skills.

To help the students become independent and empower them to choose their topic and gather data from a variety of sources, investigate varied viewpoints and acquire knowledge on the topic. Students will get a chance to develop 21st century skills of communication, cooperation, coordination, critical thinking, creativity and collaboration to produce an extended and independent work.

Focus on the following points

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

Note- students can put pictures, mind maps, cuttings of newspapers and magazines etc.

Geography
    I.   Students will prepare a project on any two topics mentioned below choosing one from each section.

Section A	Section B
Namami Gange Project	Smart city mission
Narmada Bachao Andolan	National Youth Policy
River interlinking projects	National Mission on sustainable Agriculture
Indus water treaty	National water policy

Important points to be kept in mind while preparing the report
- The Project has to be handwritten.
- It must have a proper layout (proper cover page , Acknowledgement, Certificate, Content, Bibliography at the end).
- Students will prepare the Project in A4 sheet and submit it in proper file.

    II.   Worksheet :
https://drive.google.com/drive/folders/1-WNbJbBeNzfbGI7pjcADzWR8sTFyMKW6?usp=sharing
(Do it in your Geography Notebook).
    III.   Complete the Geography Practical file.

History

Project reports should be Handwritten only.
Eco-friendly materials can be used by students.
Students can use primary sources available in city archives (Primary sources can also include newspaper cuttings, photographs, film footage and recorded written/speeches. Secondary sources may also be used after proper authentication.)
Every student has to compulsorily undertake any one project on the following topics

TOPICS FOR PROJECTS - CLASS XII
The Indus Valley Civilization-Archaeological Excavations and New Perspectives

The History and Legacy of Mauryan Empire
"Mahabharat"- The Great Epic of India
The History and Culture of the Vedic period
Buddha Charita
A Comprehensive History of Jainism
Bhakti Movement- Multiple interpretations and commentaries.
"The Mystical Dimensions of Sufism
Global legacy of Gandhian ideas
The Architectural Culture of the Vijayanagar Empire
Life of women in the Mughal rural society
Comparative Analysis of the Land Revenue Systems introduced by the Britishers in India
The Revolt of 1857- Causes; Planning & Coordination; Leadership, Vision of Unity
The Philosophy of Guru Nanak Dev
The Vision of Kabir
An insight into the Indian Constitution
Comparative study of Stupas and Pillar edicts
Comparative study of Mughal and Vijayanagar architecture
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.

Physical Education

RECORD PRACTICAL FILE

1. SAI KHELO INDIA TEST
2. BODY MASS INDEX (calculation of BMI)
3. FLAMINGO BALANCE TEST
4. COORDINATION TEST
5. PARTIAL CURL- UP
6. PUSH UPS FOR BOYS
7. MODIFIED PUSH UPS FOR GIRLS
8. 50m DASH OR 50m STANDING START

9. 600m RUN / WALK
10. SIT AND REACH FOR FLEXIBILITY
11. HARVARD STEP TEST
12. PROFICIENCY IN GAME AND SPORTS (skill of any one IOA recognised sports/ game of choice)
13. ASANAS FOR EACH LIFESTYLE DISEASE
    - Obesity- Procedure,Benefits & contraindications of Tadasana,katichakrasana,Pawanmuktasana (any one yoga)
    - Diabetes- Procedure,Benefits & contraindications of Dhanurasana,Supta-vajarasana,Paschimottanasana (any one yoga)
    - Asthma- Procedure,Benefits & contraindications of KapalbhatiBhujangasana,Vakrasana (any one yoga)
    - Hypertension- Procedure,Benefits & contraindications of Ardha Halasana,Uttanpadasana,sitali pranayam (any one yoga)
    - Back Pain and Arthritis- Procedure,Benefits & contraindications of Gomukhasana,Makarasana,Nadi-Shodhana (any one yoga)

MATHEMATICS: Worksheet

Case-1. Let x = f(t) and y = g(t) be the parametric forms with **t** as a parameter, then

$$\frac{dy}{dx} = \frac{dy}{dt} \cdot \frac{dt}{dx} = \frac{g'(t)}{f'(t)} \text{ where f '(t)} \neq 0.$$

On the basis of the above information answer the following questions

i). If y= sin pt and x= sin t , then find the value of $\frac{dx}{dy}$ at x=0

ii). If y= $\sqrt{tan\sqrt{secx}}$ differentiate y wrt secx.

iii). y=$x^{\frac{1}{x}}$, find the derivative of y w.r.t x^x.

iv). y=$e^{\sqrt{3t}}$ and x=$\frac{1}{\sqrt{t}}$ find $\frac{d^2y}{dx^2}$.

v). Velocity of a car is represented by V= $3x^2/5$, whereas distance x= 2t+5. find acceleration if a=$\frac{dV}{dt}$.

2. If $[1 \; x \; 1] \begin{bmatrix} 1 & 3 & 2 \\ 0 & 5 & 1 \\ 0 & 3 & 2 \end{bmatrix} \begin{bmatrix} x \\ 1 \\ -2 \end{bmatrix}$ = 0,then What is the value of$x$?

For what value of λ, the matrix A is a singular matrix where

$$A = \begin{bmatrix} 1 & 3 & \lambda + 2 \\ 2 & 4 & 8 \\ 3 & 5 & 10 \end{bmatrix}$$

3.

4. If $A = \begin{bmatrix} a & b \\ b & a \end{bmatrix}$ and $A^2 = \begin{bmatrix} \alpha & \beta \\ \beta & \alpha \end{bmatrix}$, then find the value of α and β.

5. Matrix $A = \begin{bmatrix} 0 & 2a & -2 \\ 3 & 1 & 3 \\ 3b & 3 & -1 \end{bmatrix}$ is given to be symmetric, find the value of

6. If A and B are skew symmetric matrices of the same order prove that AB + BA is symmetric matrix.

7. If $A = \begin{bmatrix} 5 & 3 \\ 12 & 7 \end{bmatrix}$, show that $A^2 - 12A - I = 0$. Hence find A^{-1}.

8. If $A = \begin{bmatrix} 1 & 2 & 2 \\ 2 & 1 & 2 \\ 2 & 2 & 1 \end{bmatrix}$, verify that $A^2 - 4A - 5I = 0$.

   And then find A^{-1}.

9. Using matrix method, solve the system of linear equations

   $x - 2y = 10, 2x - y - z = 8$ and $-2y + z = 7$

10. Determine the product $\begin{bmatrix} -4 & 4 & 4 \\ -7 & 1 & 3 \\ 5 & -3 & -1 \end{bmatrix} \begin{bmatrix} 1 & -1 & 1 \\ 1 & -2 & -2 \\ 2 & 1 & 3 \end{bmatrix}$

    and use it to solve the system of equations:

    $x - y + z = 4, \ x - 2y - 2z = 9, \ 2x + y + 3z = 1$

11. Prove that the relation R in the set A={5,6,7,8,9}, given by R={(a,b):|a-b| is divisible by 2} is an equivalence relation. Final all elements related to element 6.

12. Let A= {0,1,2,3} and define a relation R on A as follows:

    R={(0,0) (0,1) (0,3), (1,0), (1,1), (2,2), (3,0), (3,3)}, Is R reflexive? Symmetive? transitive?

Psychology

select 5 person whom you most admire, either from real life or history. Collect information about their contribution in their respective field and identify the characteristics in their personality that have impressed you and why?

Compare each with yourself and identify
1. Traits that u share with each of them.
2. Trait you want to inculcate, how will you do that and why you want to do it.

Team work: Divide topic among yourself (2 person for each topic) and prepare power point presentation on following topic:

1. self concept
2. Psychodynamic approach
3. Behaviourist approach
4. Humanistic approach
5. Projective techniques

Complete Question & Answer of Chapter 2.

Analysis of movie Inside Out. Prepare 1 page report about psychological observation

Write practical 1 and 2 in file

Economics

ECONOMICS: CODE (030)
I. PROJECT WORK

Presentation and Submission of Project File
At the end of the summer break, each student will submit his/her project file. Following essentials are required to be fulfilled for its preparation and submission.

- ❖ The total length of the project will be **25 to 30 pages.**
- ❖ The project should be **handwritten.**
- ❖ It should be an **independent**, self-directed piece of study.
- ❖ The project should be presented in a **folder covered with black color chart paper** with title of the project, pictures related to the same, school logo and name.
- ❖ **The project report should be developed in the following sequence-**
  * Introduction page should include the student information and session.
  * Acknowledgements and preface (acknowledging the institution, and the persons who have helped).
  * Certificate

* List of contents/ Index
 * Content
 * Conclusions
 * Bibliography

Marking Scheme:
Marks are suggested to be given as –

S. No.	Heading	Marks Allotted
1.	Relevance of the topic	3
2.	Knowledge Content/Research Work	6
3.	Presentation Technique	3
4.	Viva-voce	8
	Total	20 Marks

TOPIC GIVEN-

1. Nishita	**Employment**
2. Ryba	**Sustainable Development**

II. REVISE THE CHAPTERS DONE IN THE CLASS.

III. WORKSHEET

https://docs.google.com/document/d/1Ynx5uCW6tScQYaswNO4wIB9HKx5NHzLNz6LCT7KnwtU/edit?usp=drive_link