



DELHI PUBLIC SCHOOL, DAULATPUR

SUMMER BREAK HOMEWORK

(Session 2022-2023)

CLASS –IX

ENGLISH

1) Design your own newspaper.

How to do: The newspaper should have five sections.

1. Facts and figures of English language
2. Creative Corner- Your classroom poetry or story
3. Quotes By famous poets with their names
4. Entertainment
5. Games & Puzzle-based on tenses, verb or prepositions . (Any one) For example 'Snakes & Ladder' on prepositions.

Where to do: A3 Size sheets (5 pages)

Parameters for Assessment Quality of content, originality and presentation

2) Read any one novel of your choice and write the review **How to do:** The review is to be written in 250-300 words keeping in mind the given aspects:

- About the Writer
- Summary
- Favourite character
- Analysis

Where to do: A4 Size sheets

Parameters for Assessment Content, language and accuracy

HINDI

1. राहुल सांकृत्यायन ने तिब्बत की यात्रा 1930 में की थी। वर्तमान में अगर तिब्बत की यात्रा की जाए तो राहुल जी की यात्रा से कैसे भिन्न होगी?

2. क्या आपके किसी परिचित को घुमक्कड़ी/यायावरी का शौक है? उसके इस शौक का उसकी पढ़ाई/काम आदि पर क्या प्रभाव पड़ता होगा, लिखें।

Delhi Public School, Daulatpur
Mathematics Holiday Homework
Class IX

- Q1. Make any two project/chart: (*marks will be considered for Subject Enrichment)
- (i) Make a project on Pascal's triangle.
 - (ii) Make a chart of all the polynomials identities and drive them separately in your notebook.
 - (iii) Make 10 puzzles using linear equations or on linear equations.

Solve the following:

- Q2. How many rational numbers can be inserted between two rational numbers?
- Q3. Simplify: $(32)^{\frac{2}{5}}$.
- Q4. If $x \geq 0$, then what is the value of $\sqrt{x \sqrt{x \sqrt{x \sqrt{x \sqrt{x}}}}}$?
- Q5. If m and n are two rational numbers and $m^n = 32^{(5-n)}$, then find the value of $n^{m(n+2)}$.
- Q6. Find two rational numbers between $\frac{3}{5}$ and $\frac{5}{3}$.
- Q7. If $x = \sqrt{5} + 2$, then find the value of $x^2 - \frac{1}{x^2}$.
- Q8. If $x = \frac{\sqrt{5}+2}{\sqrt{5}-2}$ and $y = \frac{\sqrt{5}-2}{\sqrt{5}+2}$, then show that $x^2 - y^2 = -144\sqrt{5}$.
- Q9. If $y + 1$ is a factor of the polynomial $3y^2 + my$, then find the value of m .
- Q10. What is the value of $525^2 - 475^2$? (without actually squaring them)
- Q11. Find the remainder when $x^3 - ax^2 + 6x - a$ is divided by $x - a$.
- Q12. Factorise: $\left(5x - \frac{1}{x}\right)^2 + 4\left(5x - \frac{1}{x}\right) + 4; x \neq 0$.
- Q13. Expand $(4x - 2y - 3z)^2$ using suitable identity.
- Q14. If $x^2 - \frac{1}{x^2} = 6$, then find the value of $x^3 - \frac{1}{x^3}$.

SUBJECT:SCIENCE

Dear Students,

Do revise shared syllabus in the summer break for the Periodic Assessment 1st.
Given below is the project work which you are to complete in prescribed format.
Do an extensive study about your topic (at least refer to three standard sources for your topic).

Project Work : Pick a topic from your NCERT textbook and make an investigatory project on it.

Format : Cover Page

1. Index
2. Acknowledgment
3. Certificate
4. Introduction of the topic
5. Theory (History, Present Significance)
6. Tool for investigation
7. Procedure
8. Observation
9. Conclusion
10. References (Mention at least three sources)

SUMMER BREAK HOMEWORK
SUBJECT: SOCIAL SCIENCE

CLASS- IX

(1) Project Work: students have to make a project file on the topic **Disaster Management**. Students may use pictures, data, bar-chart, pie chart etc. The project work should be hand written and handmade.

Hints-

Disaster Management measures can help removing people and property from a threatened location by facilitating timely and effective rescue and relief. Disaster can be of three types:

- A) Natural- Earthquakes, floods, volcanoes, tornadoes etc.
- B) Technological- Chemical releases, power outages, natural gas explosions etc.
- C) Man-Made- Terror attacks, Race riots etc.

INFORMATION TECHNOLOGY

CLASS- IX

The students have to prepare the project on the given topics in both hardcopy and soft copy. The project should be attractive and creative having at least 10 pages.

Hardcopy: It should be colored with some image and matter to be written by the students itself.

Softcopy: It should be attractive with the animation and transition effects used and different features of PowerPoint.

The topic are as follows:

Roll No. 1 to 10: Communications Skills

Roll No. 11 to 20: Importance of ICT

Roll No. 21 to 30: Green Skills

Roll No. 31 to 40: Introduction to IT and ITes Industry

ART

Glass Painting/Stone Painting/Bottle Art/Canvas Painting

Make any one out from these things