

ARMY PUBLIC SCHOOL, PATIALA
HOLIDAY'S HOMEWORK
CLASS - IX (2023-24)

SUBJECT - ENGLISH

1. Do chapter I and II of workbook (Words and Expressions- I).
 2. Prepare a speech in 1 ½ minute to 2 minutes on any one of the given topics and get yourself video recorded (preferably in school uniform)
 - a) Impact of Rote learning.
 - b) Increasing use of Mobiles.
 - c) Impact of decline in the basic moral values.
 3. Make an informative and presentable project on Odisha (Physical features, Art and Culture, Dances, Cuisines, Culture and Heritage, Authors and Literary books) on chart paper/ loose assignment sheets/ drawing sheets. Make it high on aesthetic and artistic sense.
- 4. Poster on**
- a) Go Green, Grow Green
 - b) Being a Human Being
5. Revise all the topics that have been done till now and polish your skills for better performance in academics as well as co-curricular activities.

SUBJECT - HINDI

नोट:- सभी प्रश्न व्याकरण की कॉपी में करें |

1. अनुच्छेद लेखन:- वन और पर्यावरण का संबंध

संकेत बिंदु:-वन प्रदूषण –निवारण में सहायक
वनों की उपयोगिता
वन संरक्षण की आवश्यकता
वन संरक्षण के उपाय

2. संवाद लेखन :-

गर्मी में बिजली के बार -बार कट लगने पर दो भाइयों के बीच हुई बातचीत को संवाद के रूप में लिखें |

3. पत्र लेखन :-

अपने मित्र को ग्रीष्मावकाश में अपने घर निमंत्रित करते हुए पत्र लिखिए |

4. चित्र वर्णन :-

अपनी पसंद के किसी एक चित्र को कॉपी पर लगाकर उसका 5 से 7 पंक्तियों में वर्णन कीजिए |

SUBJECT - MATHS

NOTE : Do the following questions in a separate notebook.

1. Find decimal expansion of $\frac{3}{15}$ and $\frac{50}{3}$.
2. Find four rational numbers between $\frac{2}{9}$ and $\frac{3}{7}$.
3. Express $18.\overline{48}$ in the form of $\frac{p}{q}$, $q \neq 0$.
4. Simplify: $\frac{\sqrt{5} + \sqrt{3}}{\sqrt{80} + \sqrt{48} - \sqrt{45} - \sqrt{27}}$
5. Find the value of: $[1^3 + 2^3 + 3^3 + 8^3]^{-5/2}$.
6. Find 'm', if $2^{m-7} \times 5^{m-4} = 1250$.
7. If $\frac{3-\sqrt{5}}{3+2\sqrt{5}} = a\sqrt{5} - \frac{19}{11}b$, find the values of a and b .
8. If $y = -1$ is a zero of the polynomial $q(y) = 4y^3 + ky^2 - y - 1$, then find the value of k .
9. If $x + \frac{1}{x} = 5$, find the value of $x^3 + \frac{1}{x^3}$.
10. If $a + b + c = 9$ and $ab + bc + ca = 26$, find $a^2 + b^2 + c^2$.
11. Check whether a polynomial $p(x) = x^4 - 2x^3 + 3x^2 - x + 1$ is divisible by $x - 1$ and $x + 1$ or not.
12. Factorise : (a) $x^3 - 10x^2 - 53x - 42$ (b) $2y^3 - 5y^2 - 19y + 42$
13. Using suitable identities, factorise :
(a) $4x^2 + 25y^2 + 9z^2 - 20xy - 30yz + 12zx$ (b) $9x^2 + 24xy + 16y^2$.
14. If the co-ordinates of two points are P (-2,3) and Q (-3,5), then find (abscissa of P)-(abscissa of Q).
15. Name the quadrants in which the graph of point P(x,y) lies when :
(a) $x > 0$ and $y > 0$ (b) $x < 0$ and $y < 0$.

Activities : (To be done in practical file)

1. Draw square root spiral.
2. Represent the factors of a quadratic polynomial by cutting and pasting.

Project: Make a working model of square root spiral.

SUBJECT – SCIENCE

1. Revise- Chapter 1 (Matter in our surrounding) ,
Chapter - 5 (Fundamental unit of life - Cell) ,
Chapter - 7 (Motion)
2. Do practice Ncert Exemplar for all the chapters covered in the class
3. Do complete 2 practicals in the practical file
4. Do Book exercise and Intext Questions of chapter - 2 (Is matter around us pure)
5. Dear students make an integrated project on similarities and dissimilarities among flora and fauna of Punjab and Orissa.
 - * National park and sanctuaries of both states
 - * Vegetation of both states
 - * Climatic conditions of both states.

Can be compared

You can take any two points.

You can take a scarp file/ assignment sheets/ or chart.

- * Acknowledgement, Content
- * 5-6 pages of information
- * Bibliography

SUBJECT – SOCIAL STUDIES

➡ Social Science Art Integrated Project

Activities in the form of Collage, Ppts, handicrafts, Scrap File

<u>ROLL NO.</u>	<u>TOPICS</u>
Roll No 1-6	Culture heritage of Odisha
Roll No. 7- 12	Tourist places of Odisha
Roll No. 13-18	Government of Odisha
Roll No -19- 24	Geographical Features of Odisha
Roll No-25- 30	History of Odisha
Roll No-31 onward	Art and Temples of Odisha

➡ Make symbols of French Revolution in History note book

➡ Make a collage on Agricultural and non - agricultural activities in Economics notebook

➡ Do given worksheets

➡ Read and Learn the chapters thoroughly for PA 1 :-

History : Chapter - 1

Civics : Chapter - 1

Geography : Chapter - 1

Economics- Chapter-1

SUBJECT – ARTIFICIAL INTELLIGENCE

Vacation assignment

Make a poster or ppt on any one of the following topics:-

Smart City

Future with AI

AI ethics issues

SDGs and role of AI in achieving SDGs

SUBJECT – ART

* Make a painting depicting the **culture of Punjab** and **Orissa**

* Make a collage about the **cuisine of Punjab** and **Orissa**