

NEO CONVENT SR.SEC SCHOOL, PASCHIM VIHAR

HOLIDAY HOME WORK CLASS IX (2024-25)

Out of difficulties grow miracles. Tough time don't last.

Dear Students

The beginning of new session might not have been with pomp and show, but the spirit of teaching learning continues in the school. The summer vacations this time would not be ice creams, candies and cool pool, but time can be utilized in honing skills and interests.

It is easy to bloom, then to be a bud, but you are responsible young members of the nation and its our duty to follow rules.

Here are some holiday activities designed for creative utilization of time. Give a flight to your imagination and spend time purposely.

Some points to be remember

- a) Drink plenty of juice and water to avoid dehydration.
- b) Make hand washing and hygiene a part of your routine.
- c) Holiday Homework is a part of subject enrichment and will be assessed on the basis of creativity and efforts of the students.
- d) It's the perfect time to enhance your speaking skills and vocabulary
- e) By conversing in English with your family and siblings.
- f) Reading is essential for those who seek to rise above the ordinary.
- g) Spend your quality time reading purposeful books.
- h) Schedule your time for activities so that there is no piling up.
- i) Holiday homework should be your authentic creative work.

ENGLISH

1. Prepare a project (12-15 sheets) as per the following-
Roll No. 1-20 - Literature – Andaman & Nicobar Islands
Roll No. 21- 40 Literature - Lakshadweep
2. Practice reported speech. Write 50 sentences of all kinds of sentences in a thin notebook.
3. Write a diary entry mentioning how you enjoyed your summer holidays.

MATHS

Note: Do the questions (Q1- Q6) in the separate notebook.

1. Show that: $\frac{1}{3-\sqrt{8}} - \frac{1}{\sqrt{8}-\sqrt{7}} + \frac{1}{\sqrt{7}-\sqrt{6}} - \frac{1}{\sqrt{6}-\sqrt{5}} + \frac{1}{\sqrt{5}-2} = 5$

2. Show that: $\frac{x^{-1}+y^{-1}}{x^{-1}} + \frac{x^{-1}-y^{-1}}{x^{-1}} = \frac{x^2+y^2}{xy}$

3. If $x = 2 + 3\sqrt{2}$, then find the value of $\left(x + \frac{14}{x}\right)$.

4. Prove that:

$$(i) \left(\frac{x^a}{x^b}\right)^{a^2+ab+b^2} \times \left(\frac{x^b}{x^c}\right)^{b^2+bc+c^2} \times \left(\frac{x^c}{x^a}\right)^{c^2+ca+a^2} = 1$$

$$(ii) \left(\frac{x^a}{x^{-b}}\right)^{a^2-ab+b^2} \times \left(\frac{x^b}{x^{-c}}\right)^{b^2-bc+c^2} \times \left(\frac{x^c}{x^{-a}}\right)^{c^2-ca+a^2} = 1$$

$$(iii) \left(\frac{x^a}{x^b}\right)^c \times \left(\frac{x^b}{x^c}\right)^a \times \left(\frac{x^c}{x^a}\right)^b = 1$$

5. Plot the points $A(2, 5)$, $B(-2, 2)$ and $C(4, 2)$ on graph paper. Join AB , BC and AC . Calculate the area of triangle ABC also.

Q6. Write and learn all the algebraic identities from the chapter polynomial.

Q7. Write an activity in a presentable way related to mid-point theorem (activity -7 of lab manual) on A3 size sheet.

Q8. Make a portfolio on the given topics assigned to your Roll no.

R.NOS TOPICS

1-4. NUMBER SYSTEM

5-8. HISTORY OF ZERO

9-12. PROJECT ON COORDINATE GEOMETRY

13-16. PROJECT ON EUCLID GEOMETRY

17-20. REMAINDER THEOREM AND FACTOR THEOREM

21-24. INDIAN MATHEMATICIANS AND THEIR CONTRIBUTION TO MATHEMATICS.

25-28. HISTORY OF ALGEBRA.

29-32. MAKE PROJECT ON LINES AND ANGLES

33-36 LINEAR EQUATIONS IN TWO VARIABLES AND THEIR REPRESENTATION ON GRAPHS

37 ONWARDS. IRRATIONAL NUMBERS AS REAL NUMBERS

विषय – हिंदी ग्रीष्म अवकाश गृह कार्य (2024–25)

नाम –.....

अध्यापक हस्ताक्षर –

प्रश्न 1 रैदास के पद, रहीम के दोहे और एवरेस्ट मेरी शिखर यात्रा का **मस्तिष्कीय मानचित्र (माइंड मैप)** बनाइए।

प्रश्न 2 पाठ गिल्लू, दुख का अधिकार और तुम कब जाओगे अतिथि से पाँच-पाँच दीर्घ संधि युक्त शब्द छाँटकर लिखिए।

प्रश्न 3 समाचार पत्र से कोई दो चित्र चिपकाएँ एवं उनका वर्णन कीजिए।

प्रश्न 4 अनौपचारिक पत्र का प्रारूप लिखिए एवं अपने मित्र को पत्र लिखते हुए बताइए कि आप अपने अवकाश का सदुपयोग कैसे कर रहे हैं।

प्रश्न 5 परियोजना कार्य

अनुक्रमांक 1–22

विषय– अंडमान और निकोबार की भौगोलिक

जानकारी एवं दर्शनीय स्थल (चित्रों का प्रयोग अवश्य कीजिए।)

अनुक्रमांक 23–अंत तक

विषय– लक्षद्वीप की भौगोलिक जानकारी एवं दर्शनीय स्थल

(चित्रों का प्रयोग अवश्य कीजिए।)

ध्यान दीजिए– प्रश्न 1 से 4 का कार्य अपने रजिस्टर में ही कीजिए।

प्रश्न 5 फाइल बनाइए। जिसमें विषय सूची, विषय का

नाम , आपका व्यक्तिगत विवरण होना चाहिए।

CLASS IX (SCIENCE)

1. **Make Short Notes of the following chapters in a separate holidays homework notebook:**
 - a. **Chapter** – Matter in our surroundings
 - b. **Chapter** – Is matter around us pure
 - c. **Chapter** – Cell- Fundamental unit of Life
 - d. **Chapter** – Tissues
 - e. **Chapter** – Motion
 - f. **Chapter** – Force and laws of Motion
 2. Make a portfolio containing the following :
 - a. Write **all formulas** of physics chapters (Motion , Force and laws of Motion , Gravitation , Work and Energy and Sound) on A4 SHEETS
 - b. **Chemical formulas** of all compounds of Chemistry Chapter **Atoms and Molecules** of **NCERT textbook** on A4 SHEETS.
 - c. Colorful diagram of Cell, Tissues on A4 SHEETS.
 3. Prepare your own PowerPoint presentations (DO NOT DOWNLOAD FROM GOOGLE) on the following topic:
 - a. **Impulsive and Non Impulsive forces**
 - b. **Comparison between Natural Resources of Delhi and Lakshadweep.**
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SOCIAL SCIENCE CLASS – IX

Make a portfolio on Disaster Management:

Roll No.: 1-10: Tsunami

Roll No.: 11-20: Earthquake

Roll No.: 21-30: Cyclone

Roll No.: 31 onwards: Man-made disaster

INFORMATION TECHNOLOGY (402)

- Q-1) List any three scenarios where written communication is most effective.
- Q-2) Why self management is important for us;
- Q-3) Define the functioning of control unit.
- Q-4) Explain any two roles of ICT in our personal daily life.
- Q-5) How can you say that operating system functions as an interface between the user and the computer system?
- Q-6) Briefly describe the basic components of Windows/Ubuntu GUI.
- Q-7) You have 200 files in a folder. You need to delete last 30 files. How will you do this?
- Q-8) What are various Digital India initiatives taken by Indian government?
- Q-9) How is applications software is different from an operating system?
- Q-10) Why printer is called a peripheral device while not the keyboard?
