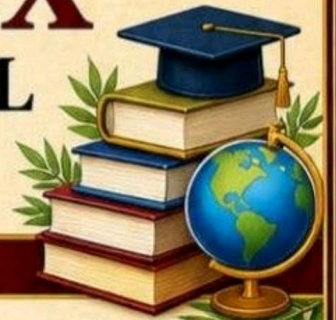
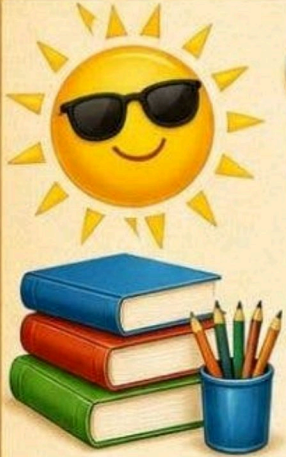




NORTH-EX[®] PUBLIC SCHOOL — DELHI —




Established 1999 | CBSE Curriculum | Holistic Development





SUMMER HOLIDAY HOMEWORK


Session 2026–2027



 Student Name : _____

 Class : _____

 Section : _____

 Class Teacher : _____

Explore, Learn & Grow this Summer!

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OUTDOOR
ACTIVITIES



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ACTIVITIES
(ART, MUSIC, DANCE)



SAFE & SECURE
CAMPUS
(CCTV)

★  Complete your work neatly and submit on time. ★ ★

NORTH-EX PUBLIC SCHOOL
(Senior Secondary, Affiliated To CBSE)
School Block, Jain Nagar, Sector-38, Rohini, Delhi – 81
CLASS: X
HOLIDAY HOMEWORK

General Instructions:

- Learn and revise the syllabus of Periodic Test -1.
- Do your project work neatly.
- Holiday homework should be done in the test register or according to the requirement mentioned.

WEEK – 1

ENGLISH

1. Do Reading section of last five years Sample Question Papers in your test register.

2. Think back over your past seven days of your summer vacation. In your best **cursive handwriting**, write a diary entry (approx. 120–150 words) **week wise** describing how you spent your week.

Include the following:

Where did you go and what were your main activities?

Describe one thing you saw, heard, or felt that made the week memorable.

How does these moments change the way you look back on your week?"

Example :

Monday, 1st June, 2026

Time: 9:00 p.m.

Dear Diary,

This week has been a wonderful blur of relaxation and discovery. Most of my days were spent at my grandparents' farmhouse, away from the city's heat. I spent my mornings helping Granddad in the garden and my afternoons reading under the old mango tree.

The highlight was Tuesday evening when a sudden rainstorm cooled the air. I can still hear the rhythmic tapping of raindrops on the tin roof and smell the fresh, earthy scent of the dry ground soaking up water. It was a moment of pure calm. Looking back, that one peaceful evening made the whole week

feel special. It reminded me that I don't need a busy schedule to be truly happy; sometimes, just sitting still is enough.

Shreyas

HINDI

प्रश्न 1. पाठ 'बड़ेभाईसाहब' के आधार पर बताइए कि क्या कारण था कि दिन भर किताबों में घुसे रहने के बावजूद बड़ेभाईसाहब एक ही कक्ष में तीन बार फेल हो गए जबकि छोटाभाई खेलने-कूदने के बावजूद भी दनादन पास होता गया ?

प्रश्न 2. कबीर की प्रत्येक साखी से मिलने वाली सीख को अपने शब्दों में संक्षेप में लिखिए।

MATHS

1. A train covers a distance of 300 km at a uniform speed. If the speed of the train is increased by 5 km/hr, it takes 2 hours less in the journey. Find the original speed of the train.

2. If $x=3$ is root of the quadratic equation $x^2-x+k=0$, find the value of p so that the roots of the equation $x^2+k(2x+k+2)+p=0$ are equal.

SCIENCE

1. An electric bulb is rated as 10 W, 220 V. How many of these bulbs can be connected in parallel across the two wires of 220 V supply line if the maximum current which can be drawn is 5 A?

2. Two exactly similar electric lamps are arranged (i) in parallel, and (ii) in series. If the parallel and series combination of lamps are connected to 220 V supply line one by one, what will be the ratio of electric power consumed by them?

SOCIAL STUDIES

Q1. "Planning of resources is very important for a country like India." Justify by giving three reasons.

Q2. Which soil is considered ideal for growing cotton? How is the soil formed?

IT

Prepare a poster on social awareness on issue of 'Women empowerment'.

2. Draw the diagram importance of Feedback in register.

WEEK – 2

ENGLISH

1. Do Grammar section of last five years Sample Question Papers in your test register.
2. Think back over your past seven days of your summer vacation. In your best **cursive handwriting**, write a diary entry (approx. 120–150 words) **week wise** describing how you spent your week.

HINDI

प्रश्न 1. घर में किसी बड़े बुजुर्ग

से उनके बचपन की कोई रोमांचक कहानी या अनुभव सुनिए तथा उसे रचनात्मक रूप में लिखिए।

प्रश्न 2. मीरा के पहले पद में निहित **भगवान** के नरसिंह रूप के विषय में संक्षेप में जानकारी प्राप्त की जाए तथा लिखिए।

MATHS

1. Find the value (s) of m for which the roots of the equation $mx(6x+10) + 25 = 0$, are equal.
2. Prove that $(\sin \theta - \cos \theta + 1) \operatorname{cosec} \theta = 2$.

SOCIAL STUDIES

- Q1. What changes were introduced after the French Revolution in France?
- Q2. Explain the features of the painting of Frederic Sorrieu.

IT

1. Make a poster with a mind map showing different types of communication barriers and measures to overcome them.
2. Draw the picture principles of communication from page 31.

SCIENCE

1. Why do herbivores have longer small intestine than carnivorous?
2. Write the Balanced Chemical equation for the process of photosynthesis and their functions. How photosynthesis occurs in desert plants.

WEEK – 3

ENGLISH

1. **FIRST FLIGHT:** Recreate the story 'A Letter to God' in your own words keeping yourself at the place of Lencho. You can take the liberty to mould the story according to you rather copying from the same text. (150 words) (To be done in test register)
2. Think back over your past seven days of your summer vacation. In your best **curative handwriting**, write a diary entry (approx. 120–150 words) **week wise** describing how you spent your week.

HINDI

प्रश्न 1. 'हरिहर काका' कहानी पाठ के आधार पर वर्तमान समय में संयुक्त परिवार का महत्व स्पष्ट कीजिए।

प्रश्न 2. यदि आप कहीं घूमने जा रहे हैं, तो वहाँ के प्रसिद्ध खान-पान, वेशभूषा और ऐतिहासिक स्थलों की जानकारी एकत्र कर एक 'ट्रैवल ब्रोशर' (Travel Brochure) बनाएँ।

MATHS

1. If $\sin x + \operatorname{cosec} x = 2$, then find the value of $\sin^2 x + \operatorname{cosec}^2 x$.
2. If the equation $(1 + m^2)x^2 + 2mcx + (c^2 - a^2) = 0$ has equal roots, prove that $c^2 = a^2(1 + m^2)$.

SCIENCE

- 1.Explain Exchange of Gases in Humans?and Make the diagram with proper explanation?
2. Make a Report on The Global Impact of Respiratory Disease, Hemodialysis, Heart Problems (Blood Pressure) and collect some news headlines also & paste it with reference.
3. Complete your All biology Experiment in your File which is already discussed in the Class.

IT

- 1.Organize a nature walk with your friends in summer break . Write a report on your observation about the effect of walk had on your state of mind.
2. Write the five points to consider while preparing a Presentation.

SOCIAL STUDIES

- 1.What do you mean by the word ethnic?
- 2.What is community government? Explain the concept of community government with context to Belgium.

WEEK – 4

ENGLISH

1. What is an autobiography? Study the autobiography of Mr Nelson Mandela and write the prominent features of his autobiography and do write the lesson we can learn from it (100 words).
2. Think back over your past seven days of your summer vacation. In your best **cursive handwriting**, write a diary entry (approx. 120–150 words) **week wise** describing how you spent your week.

HINDI

प्रश्न 1. आपने अपनी गर्मी की छुट्टियां किस प्रकार व्यतीत कीं- एक अनुच्छेद के रूप में लिखिए।

प्रश्न 2. आपके विद्यालय में 'हिंदी कार्यशाला' का आयोजन किया जा रहा है। इसमें विभिन्न विषयों पर प्रतियोगिताएं जैसे भाषण, नाटक, काव्य-सम्मेलन आदि होंगे। इनकी सूचना विद्यार्थियों को देते हुए लगभग 80 शब्दों में सूचना लिखिए।

MATHS

1. There is a circular path around a sports field. Ram takes 24 minutes to walk one round of the field while Ravi takes 18 minutes for the same. If they both start at the same point, at the same time and go in the same direction, after how many minutes will they meet again at the starting point?

2. Prove that $+++ = 2$

3. Do lab activities:

Activity2: To verify the conditions for consistency/inconsistency for a pair of linear equations in two variables by graphical method.

Activity18: To determine experimental probability of 1,2,3,4,5 or 6 by throwing a dice 500 times and compare them with their theoretical probabilities.

Activity20: To verify the distance formula by graphical method.

Activity22: To obtain formula for area of a circle experimentally.

Activity23: To obtain formula for the surface area of a circus tent.

SCIENCE

1. Two exactly similar heating resistances are connected (i) in series, and (ii) in parallel, in two different circuits, one by one. If the same current is passed through both the combinations, is more heat obtained per minute when they are connected in series or when they are connected in parallel? Give reason for your answer.

2. An electric iron is connected to the mains power supply of 220 V. When the electric iron is adjusted at 'minimum heating' it consumes a power of 360 W but at 'maximum heating' it takes a power of 840 W. Calculate the current and resistance in each case.

Chemistry

3. When the solution of substance X is added to a solution of potassium iodide, then a yellow solid separates out from the solution.

(a) What do you think substance X is likely to be?

(b) Name the substance which the yellow solid consists of.

(c) Which characteristic of chemical reactions is illustrated by this example?

- (d) Write a balanced chemical equation for the reaction which takes place. Mention the physical states of all the reactants and products involved in the chemical equation.
4. When water is added gradually to a white solid X, a hissing sound is heard and a lot of heat is produced forming a product Y. A suspension of Y in water is applied to the walls of a house during white washing. A clear solution of Y is also used for testing carbon dioxide gas in the laboratory.
- (a) What could be solid X? Write its chemical formula.
- (b) What could be product Y? Write its chemical formula.
- (c) What is the common name of the solution of Y which is used for testing carbon dioxide gas?
- (d) Write chemical equation of the reaction which takes place on adding water to solid X.
- (e) Which characteristic of chemical reactions is illustrated by this example?

SOCIAL STUDIES

1. 'The federal system has dual objectives.' Mention the dual objectives.
2. What are Residuary powers?

IT

1. Write about few lines related to Specific and Non – Specific Feedback.
2. Describe the principles of effective communication.

WEEK – 5

ENGLISH

1. SUBJECT ENRICHMENT ACTIVITY (SPEAKING SKILL): Students are guided to prepare any one topic from the following for speaking skills. (Time limit 2 to 3 minutes)

- a) Importance of sports and games
- b) Pleasures of mountaineering
- c) Modern fashion
- d) Inside an examination hall
- e) If I become a millionaire
- f) Generation gap
- g) Variety is the spice of life

2. Think back over your past seven days of your summer vacation.

In your best **cursive handwriting**, write a diary entry (approx. 120–150 words) **week wise** describing how you spent your week.

HINDI

1. रचनाके आधारपर सरलसंयुक्तवमिश्रवाक्यमें उदाहरणसहित अंतरस्पष्टकीजिए।

प्रश्न 2. सगुणभक्तिधाराके कविसूरदास, रसखान, मीराबाई और तुलसीदास के विषयमें जानकारी प्राप्तकीजिए वचित्रसहित एकपरियोजनाकार्यतैयारकीजिए।

MATHS

1. Evaluate $4/3 \tan 30^\circ + \sin 60^\circ - 3 \cos 60^\circ + 3/4 \tan 60^\circ - 2 \tan 45^\circ$.
2. In a teacher's workshop, the number of teachers teaching French, Hindi and English are 48, 80 and 144 respectively. Find the minimum number of rooms required if in each room the same number of teachers are seated and all of them are of the same subject.
3. A coin is tossed 3 times. Find the probability of getting
 - i) At most 1 heads
 - ii) At least two heads

SCIENCE

1. When metal X is treated with a dilute acid Y, then a gas Z is evolved which burns readily by making a little explosion.
 - (a) Name any two metals which can behave like metal X.
 - (b) Name any two acids which can behave like acid Y.
 - (c) Name the gas Z.
 - (d) Is the gas Z lighter than or heavier than air?
 - (e) Is the reaction between metal X and dilute acid Y exothermic or endothermic?
 - (f) By taking a specific example of metal X and dilute acid Y, write a balanced chemical equation for the reaction which takes place. Also indicate physical states of all the reactants and products.
2. A solid substance P which is very hard is used in the construction of many buildings, especially flooring. When substance P is heated strongly, it decomposes to form another solid Q and a gas R is given out. Solid Q reacts with water with the release of a lot of heat to form a substance S. When gas R is passed into a clear solution of substance S, then a white precipitate of substance T is formed. The substance T has the same chemical composition as starting substance P.
 - (a) What is substance P? Write its common name as well as chemical formula.
 - (b) What is substance Q?
 - (c) What is gas R?
 - (d) What is substance S? What is its clear solution known as?
 - (e) What is substance T? Name any two natural forms in which substance T occurs in nature.

SOCIAL STUDIES

Q1. 'Money cannot buy all the goods and services that one needs to live well.' Explain.

Q2. India is the federism country ?Explain in brief?

IT

1. Write two sentences of each type; exclamatory , declarative and interrogative.

2. Explain the steps to manage stress.

Complete chapters related to PT-1 in register, book (if pending) & Revise.

ART

1. Make a kalamkari art on A3 size sheet.

2. Make an anime art on A3 size sheet.

PROJECT WORK/WORKING MODEL

Roll No.	Science	S. St	English (Art - integrated Project) Theme –Lakshadweep/Nicobar island	IT (Chart/ Flashcards)
1-5	Series & parallel circuits	Sustainable Development	Create an attractive Pamphlet on places to visit Itinerary	Ms-word use of styles & image
5-10	Human heart	Environmental problems	Create an attractive Pamphlet on Art & Craft and Music	Excel employ &Table
10-15	Electrolysis of water	Consumer Awareness	Create an attractive Pamphlet on various tribes, their traditions and cuisine	Presentation on methods of communication
15-20	Human Digestive system	Social issue – introduction	Create an attractive Pamphlet on Festivals & dances	Different AI tools
20-25	Stomata & Photosynthesis	Major social problems	Create an attractive Pamphlet on Literature and Poems	Presentation of discipline
25-30	Human Excretory system	Solution of social issue	Create an attractive pamphlet on Cuisine and dances	Presentation of self empowerment
30-36	Solenoid & Electromagnets	Impact of social issues	Create an attractive pamphlet on fairs, Festival and traditional food	Uses of AI tools in daily life