

NORTH-EX PUBLIC SCHOOL
(Senior Secondary, Affiliated To CBSE)
School Block, Jain Nagar, Sector-38, Rohini, Delhi – 81
SUMMER HOLIDAY HOMEWORK, 2025-26
CLASS - IX

IT

1. Create a Presentation to explain the various types of primary storage devices in a computer (8 slides)
2. Collect information about the Digital India initiatives taken by the Government of India and create a report on it .
3. Create a poster in Word on the topic : Input and Output Devices.
4. Use pictures to prepare a poster on business activities found in : a) Cities b) Villages
5. Think of a goal you want to achieve, Apply the smart strategy to develop a plan for achieving it track your progress. Do a write –up on your experience.
6. Write the difference between verbal and non- verbal communication .
7. List the barriers to effective communication . Explain Any two .
8. Which is your favorite festival ? Write two paragraphs about your favorite festival. Each paragraph should have a minimum 100-120 words.
9. Discuss any three strategies of organization skill that you would like to apply in your life. How do you hope to benefit from them ?
10. “ Lack of self – confidence puts one in a vicious cycle .” Comment and support your Answer with an example.
11. Complete chapter-1 to 6 in register, book (if pending) & Revise.

SOCIAL SCIENCE

- Q1 :- The revolutionary government took it upon themselves to pass laws that would translate the ideals of liberty and equality into everyday practice.” Discuss this statement with special emphasis on the abolition of censorship.
- Q2:- Explain the role of philosophers in the French Revolution of 1789.
- Q3:- Which groups of French society benefited from the revolution? Which groups were forced to relinquish power? Which sections of society would have been disappointed with the outcome of the revolution?
- Q4:- How can you say that Palampur is a well-developed village?
- Q5 :- What are the ill effects of the Green Revolution?
- Q6:- How does Democracy enhance the dignity of the citizens?
- Q7. What would have happened if India was not a democracy? Could we have stayed together as a single nation?
- Q8:- Why is Indian Ocean named after our country? Give three reasons.
- Q9. Draw a bar graph showing the countries which are larger than India.
- Q10. **Project work** - Make a project on **Disaster management** including all relevant information and pictures.

SCIENCE

1. A racing car has a uniform acceleration of 4 m/s^2 . What distance will it cover in 10 s after start?

2. A trolley, while going, down an inclined plane, has an acceleration of 2 cm/s^2 . What distance will it cover in 10 s after start?
3. A car starts from rest and moves along the x – axis with constant acceleration 5 m/s^2 for 8s. If it then continues with constant velocity, what distance will the car cover in 12 s since it started from the rest?
4. Detailed Note of Invention of Science and their Contribution?
5. Tabulate the Difference in the Following: (Minimum 10)
 - ★ Unicellular and Multicellular
 - ★ Prokaryotic and Eukaryotic
 - ★ Animal cell and Plant cell
 - ★ Mitosis and Meiosis
 - ★ Osmosis and Diffusion
 - ★ ER and SR
6. Justify the Answer :-
 - (a) What would happen to the life of a cell if there was no Golgi apparatus?
 - (b) What would happen if the plasma membrane ruptures or break down?
 - (c) How does an Amoeba obtain its food?
 - (d) Which organelles is known as the powerhouse of the cell? Why?
 - (e) Why are lysosomes known as suicide bags?
7. Make on Project Of Cell and Their Cell Organelles and their Functions with Diagrams?
8. Tabulate the differences in the Characteristics of States of Matter. (Minimum 10)
9. Comment upon the following: Rigidity, Compressibility, fluidity, filling a Gas container, Shape, kinetic energy and density, Sublimation, Deposition, Latent heat of fusion and vaporization.
10. What is Evaporation? Define their factors? State their 5 uses in our Daily life?
11. Make Flow chart or Table on Pastel Sheet Related to the Chapter 1.
12. Make a working model.

S No	Roll numbers	Suggested Topics
1	1-5	Motion/ States of matter
2	6-10	Newton's First Law/ Cell
3	11-15	Newton's Second Law/ States of matter
4	16-20	Newton's Third Law/ Cell
5	21-25	Momentum/ States of matter
6	26-30	Work/ Cell
7	31-35	Gravitation & Flotation/ States of matter
8	36-40	Sound/ Cell
9	41-50	Energy/ States of matter

MATHEMATICS

1. Simplify $\left(\frac{81}{16}\right)^{-\frac{3}{4}} \left[\left(\frac{25}{9}\right)^{-\frac{3}{2}} + \left(\frac{5}{2}\right)^{-3} \right]$
2. Simplify $\left(\frac{81}{16}\right)^{-3/4} \times \left(\frac{25}{9}\right)^{-3/2}$
3. If $\left(\frac{3}{4}\right)^6 \times \left(\frac{16}{9}\right)^5 = \left(\frac{4}{3}\right)^{x+2}$ find the value of x
4. Rationalise the denominator $\frac{\sqrt{5}}{3+\sqrt{2}}$
5. Write 3 solutions for the line $2x + y = 4$.
6. Show that :-
$$\frac{x^{a(b-c)}}{x^{b(a-c)}} \div \left(\frac{x^b}{x^a}\right)^c = 1.$$
7. Find the value of a and b in $\frac{3+\sqrt{2}}{3-\sqrt{2}} = a + b\sqrt{2}$.
8. Simplify by rationalising the denominator $\frac{6-4\sqrt{3}}{6+4\sqrt{3}}$.
9. Express $0.\overline{32}$ in p/q form.
10. Plot the points A(3,0) , B(3,3) ,C(0,3) in a cartesian plane . Join OA , AB ,BC and CO. Name the figure so obtained
11. The point $(2k - 3, k + 2)$ lies on the graph of the linear equation $2x + 3y + 15 = 0$, find k.
12. Do Activities no. 11,12,15,17,19 in Lab manual .

HINDI

- प्रश्न 1. पाठ 'दुख का अधिकार' के आधार पर बुढ़िया मां की चारित्रिक विशेषताएं बताइए।
- प्रश्न 2. रैदास के पदों में वर्णित चंदन और पानी, मोती और धागा तथा बादल और मोर का क्या संबंध है?
- विस्तारपूर्वक अपने शब्दों में स्पष्ट कीजिए।
- प्रश्न 3. रैदास के दूसरे पद में कवि द्वारा ईश्वर की किन-किन विशेषताओं का उल्लेख किया गया है।
- प्रश्न 4. गिल्लू पाठ से मिलने वाले संदेश को अपने शब्दों में लिखिए तथा बताइए कि पशु-पक्षियों की सुरक्षा हम किस प्रकार कर सकते हैं?
- प्रश्न 5. गिलहरियों के जीवन के विषय में संक्षेप में जानकारी प्राप्त कीजिए व चित्र बनाइए?
- प्रश्न 6. 'दिन-प्रतिदिन बढ़ती 'ग्लोबल वार्मिंग की समस्या' पर लगभग 100 शब्दों में एक अनुच्छेद लिखिए।
- प्रश्न 7. 'धूम्रपान स्वास्थ्य के लिए हानिकारक है' विषय पर दो मित्रों के बीच लगभग 100 शब्दों में संवाद लिखिए।
- प्रश्न 8. अनुस्वार व अनुनासिक में उदाहरण सहित अंतर स्पष्ट कीजिए।
- प्रश्न 9. पाठ 'रहीम के दोहे' - प्रत्येक दोहे से मिलने वाली सीख को संक्षेप में लिखिए।
- प्रश्न 10. भक्ति काल के निर्गुण धारा के प्रमुख कवि रैदास (रविदास), कबीर तथा नामदेव के विषय में जानकारी प्राप्त कीजिए तथा चित्र सहित परियोजना कार्य तैयार कीजिए।

ENGLISH

1. Revise syllabus of Periodic Test -1.
2. Write a letter to the editor of a local daily complaining against the school bus driver for rash driving. You are Dipti/Deepak ,C-4C Janakpuri,New Delhi.
3. You encountered two strange people. They were different from normal human beings but they were quite interesting and exciting. As Manish\Manisha, using your ideas , write a story in about 150-200 words narrating your experience with them.
4. Read the Newspaper daily and write only one news article under the given headings like National, International, Sports, Business and express your views on it.
5. Draft a poster on any of your favourite freedom fighter (Use A4 size sheet).
6. Create a **pamphlet** to educate people about the importance of recycling, water conservation, or other environmental issues. (**Project Work**)
7. Read the chapters covered in the months of April and May. Make the glossary of difficult words in your test registers.
8. Do one page daily cursive handwriting (neat and clean) in the rough notebook.
9. Today it was your grandparents '50th' wedding anniversary. You and your siblings did everything to make them feel special. Write a diary entry describing the things you did to celebrate the occasion.
10. Practice grammar topics covered till now from the Acme Practice Book. (Page no.123-127 & 150-152)

VISUAL ART

1. Make a beautiful madhubani painting on A3 size sheet.
2. Make any craft work related to home decor.