

NORTH-EX PUBLIC SCHOOL
(SENIOR SECONDARY, AFFILIATED TO CBSE)
SCHOOL BLOCK, JAIN NAGAR, SECTOR-38, ROHINI, DELHI-81
SUMMER HOLIDAY HOMEWORK
CLASS IX

ENGLISH

1. Read the chapters 1 to 2 from 'Moments' Supplementary Reader and learn the answers for the questions followed by in the class work copy.
2. 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.
3. Computers are a storehouse of knowledge and wisdom and they are hazardous too. Write an article on the topic 'The benefits and harms of computers'. Word limit is 180-200 words.
4. 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.
5. Write a letter to the chairman, Water Authority, in upto 120- 150 words, on the problems related to scarcity of water. Also suggest a few effective remedies.
6. Write the Biography of any one of the following in notebooks:
- Ustad Bismillah Khan
- Evelyn Glennie
(Also draw the related musical instruments mentioned in the text- The Sound of Music)
7. While enjoying your summer vacation, you, too, may come across something unusual. Write about any 5 eventful days that impressed you deeply or brought a smile on your face.
8. You witnessed a quarrel among some children of your colony. Make a diary entry giving an account of the quarrel giving some suggestions to avoid such quarrels in future.. Express your feelings in the form of a diary entry in 100-120 words.
9. Write synonyms of the difficult words (15 atleast) of the following chapters and poems:
 - a. The Fun they had
 - b. The Road not Taken
 - c. The Sound of Music
10. Read the chapters 1 and 2 from 'Beehive' and learn the answers for the questions followed by in the class work copy.

HINDI

- प्रश्न 1. पाठ 'दुख का अधिकार' में किन विकृतियों और अंधविश्वासों का चित्रण हुआ है? अपने विचारानुसार स्पष्ट कीजिए।
- प्रश्न 2. रैदास के पदों में वर्णित बादल का मोर के साथ तथा चकोर का चंद्रमा के साथ क्या संबंध होता है? विस्तारपूर्वक अपने शब्दों में स्पष्ट कीजिए।
- प्रश्न 3. कवि रहीम के एक दोहे में 'चित्रकूट' नामक स्थान का वर्णन किया गया है। चित्रकूट किस राज्य में स्थित है? जानकारी प्राप्त कीजिए व इस स्थान के विषय में लिखिए।
- प्रश्न 4. गिल्लू पाठ से मिलने वाले संदेश को अपने शब्दों में लिखिए तथा बताइए कि पशु-पक्षियों के साथ हमारा व्यवहार किस प्रकार का होना चाहिए?

प्रश्न 5. घायल होने के कारण गिल्लू लेखिका के संरक्षण में आ गया जहां उसे रहने के लिए घर, खाने के लिए बढ़िया आहार सुलभ थे। कल्पना कीजिए यदि गिल्लू अपने प्राकृतिक स्थान में रहता तो उसका जीवन कैसा होता है?

प्रश्न 6. 'किसी प्राकृतिक स्थल की यात्रा' विषय पर लगभग 100 शब्दों में एक अनुच्छेद लिखिए।

प्रश्न 7. मेट्रो रेल में यात्रा करते हुए दो व्यक्तियों के बीच लगभग 100 शब्दों में संवाद लिखिए।

प्रश्न 8. दस अनुस्वार युक्त शब्द लिखिए।

प्रश्न 9. दस अनुनासिक युक्त शब्द लिखिए।

प्रश्न 10. दुख का अधिकार, रैदास के पद व रहीम के दोहे

पाठों को पढ़कर आपने क्या सीखा तथा इनमें ऐसी कौन-से जीवन मूल्य हैं जिन्हें हमें अपने व्यवहारिक जीवन में अपनाना चाहिए?

MATHEMATICS

1. Simplify $\sqrt[3]{16} + \sqrt[3]{54} + \sqrt[3]{192} - \sqrt[3]{375}$.
2. Find the value of a and b in $\frac{3+\sqrt{2}}{3-\sqrt{2}} = a + b\sqrt{2}$.
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. The point $(2k - 3, k + 2)$ lies on the graph of the linear equation $2x + 3y + 15 = 0$, find k.
5. 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.
6. Write four solutions of given linear equation $3x - 4y = 12$ and draw the graph.
7. Show that :-
 $\frac{x^{a(b-c)}}{x^{b(a-c)}} \div \left(\frac{x^b}{x^a}\right)^c = 1$.
8. Simplify $\left(\frac{81}{16}\right)^{-3/4} \times \left(\frac{25}{9}\right)^{-3/2}$
9. Rationalise the denominator $\frac{\sqrt{5}}{3+\sqrt{2}}$
10. Simplify by rationalising the denominator $\frac{6-4\sqrt{3}}{6+4\sqrt{3}}$.
11. Represent $\sqrt{2}$ on the number line.
12. If a point (3,4) lies on the graph of linear equation $3y = ax + 7$, find the value of a?
- 13.. How many irrational number lie between $\sqrt{2}$ and $\sqrt{3}$. Find any two irrational number lying between $\sqrt{2}$ and $\sqrt{3}$.
14. Express 0.3 in p/q form.
- 15 Do following activities in Lab Manual:
2, 3, 11, 17, 20, 27, 28, 32, 35, 36

SCIENCE

1. A body travels a distance of 3 km towards East, then 4 km towards North and finally 9 km towards East.
 - (i) What is the total distance travelled?
 - (ii) What is the resultant displacement?
2. A boy walks from his classroom to the bookshop along a straight corridor towards North. He covers a distance of 20 m in 25 seconds to reach the bookshop. After buying a book, he travels the same distance in the same time to reach back in the classroom. Find (a) average speed, and (b) average velocity, of the boy.

3. A car travels 100 km at a speed of 60 km/h and returns with a speed of 40 km/h. Calculate the average speed for the whole journey.
4. A ball hits a wall horizontally at 6.0 m s^{-1} . It rebounds horizontally at 4.4 m s^{-1} . The ball is in contact with the wall for 0.040 s. What is the acceleration of the ball?
5. Tabulate the differences in the Characteristics of States of Matter. (Minimum 10)
6. Comment upon the following: Rigidity, Compressibility, fluidity, filling a Gas container, Shape, kinetic energy and density, Sublimation, Deposition, Latent heat of fusion and vaporization.
7. What is Evaporation? Define their factors? State their 5 uses in our Daily life?
8. Make Flow chart or Table on Pastel Sheet Related to the Chapter 1.
9. Make a Working Model Related to the States Of Matter.
10. Detailed Note of Invention of Science and their Contribution?
11. 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
12. 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?
13. Make on Project Of Cell and Their Cell Organelles and their Functions with Diagrams?
14. Complete your practical file.
15. Prepare a model on the following

S.No	Roll Numbers	Suggested Topics
1	1-5	NEWTONS FIRST LAW OR CELL
2	6-10	NEWTONS SECOND LAW OR TYPES OF CELL
3	11-15	NEWTONS THIRD LAW OR CELL ORGANELLS
4	16-20	CONSERVATION OF LINEAR MOMENTUM OR PROKARYOTIC AND EUKARYOTIC
5	21-25	BUOYANCY OR MITOCHONDRIA
6	26-30	APPLICATION OF REFLECTION OF SOUND OR CELL DIVISION
7	31-35	WAVES OR MITOSIS AND MEIOSIS
8	36-40	ENERGY AND LYSOSOMES

INFORMATION TECHNOLOGY

1. Make a Presentation on some common body language errors that one should avoid while communicating . (8 slides)
2. Draw/Paste a diagram of communication cycle Pg-18 in register.
3. Draw/Paste the pictures of communication channel in register pg no.-18 in book.
4. Make a poster on 'Quality Education ' pg no. 26.
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. Complete chapter-1 to 5 in register, book (if pending) & Revise.

SOCIAL SCIENCE

- Q1. Just before independence, how were the Provinces and states in India organised?
- Q2. Why is Indian Ocean named after our country? Give three reasons.
- Q3. Draw a bar graph showing the countries which are larger than India.
- Q4. Assume that you have recently travelled in the Indian desert. Describe the desert to a person not living in India.
- Q5. What do you understand by Duns? Where are they situated in our country?
- 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. Is it important to increase the area under irrigation? Why?
- Q9. What do you know about Purvanchal?
- Q10. Project work - Make a project on Disaster management including all relevant information and pictures.

VISUAL ART

1. Make a poster on Global humanitarian issues in A4 size sheet.
2. Make 10 texture impressions using household or nearby items in A4 size sheets. (For example- comb, bubble wrap, tree branch, etc)