



**THE ROYAL
COLLEGE
WINTER HOLIDAY
HOMEWORK**

STD - IX

Dear Parents,

We are on the verge of bidding goodbye to 2025 and say 'Hello' to 2026. This is the time when we must introspect, look back, review and reflect upon the entire year to analyze as to how to make it better in the year 2026 for our children. We would like to draw your kind attention towards the following points your ward must adhere to:

- Must take care of his/her hygiene and take bath regularly and wear clean and well ironed clothes.
- Fitness should be prime focus for students and they must take out time for exercise and outdoor games.
- The students must also eat homemade healthy and nutritious food.
- Take out time to pursue a hobby and widen their horizon of learning.
- Identify his/her areas where they need improvement-speaking, writing, reading, math skills and handwriting etc. and garnish them.
- Revise all the concepts taught in the class and read the covered lessons thoroughly.

Hope you all have a wonderful vacation time with immense learning and lots of fun.

WISHING YOU AND YOUR FAMILY A HAPPY AND PROSPEROUS NEW YEAR 2026.

ENGLISH

Activity1- i) Read the given story book “Roads to Happiness” by “Ruskin Bond” and prepare book report in given format.(Purchase book from Amazon and get the book along with HHW to school). <https://amzn.in/d/ayhXHch>

ii) Be creative! You can colour, draw and decorate your book report on an A3 sheet.

BOOK REVIEW

Title: _____
Author: _____

Title: _____
Title: _____

Create a new cover for your book.

What was your favorite part of the book? Why?

Quick Summary

Would you recommend this book to a friend?
Yes No

www.pinkadofelementary.com

Activity 2.

Diary Entry

You paid a visit to an Old Age Home with NSS volunteers. Using the hints even below together with your own ideas, make a diary entry of what you saw and experienced there.

Hints -

- * old age home.
- * Mostly senior citizens above 60
- * Peaceful surroundings
- * Spacious, clean rooms and bath
- * Regular medical check ups
- * A good library
- * Means of recreation

HINDI

क्रियाकलाप

- 1 -अपने घर के बुजुर्ग सदस्य का साक्षात्कार लेकर उनके जीवन के अनुभव A4 शीट में लिखिए । (शब्द सीमा 80-100)
- 2 -अपना प्रिय श्लोक या दोहा लिखें तथा उसका अर्थ अपने शब्दों में A4 शीट में लिखें और यह भी बताएँ कि वह आपके जीवन से किस प्रकार संबंधित है । (शब्द सीमा 80 से 100)

MATHEMATICS

Do the following questions from the RD SHARMA book of Mathematics in a separate notebook:

Chapter: Polynomials

- * Page No. 4.3 and 4.5 Example 3, 8, 9, 10
- * Page No. 4.11 Question 2, 4, 5, 7
- * Page No. 4.17 Question 2, 3, 5, 8, 10, 12, 14, 16, 17
- * Page No. 5.3 Example 6, 7, 8
- * Page No. 5.7 Question 1, 3, 6, 7, 10, 14, 16, 17, 21, 25, 28, 30, 31, 34
- * Page No. 5.11 Question 5, 6, 8, 19, 20, 23
- * Page No. 5.19 Question 3, 7, 8, 9, 13

Chapter: Surface area and Volume

- * Page No. 15.5 and 15.6 Question 3, 4, 6, 8, 9, 11, 13, 15
- * Page No. 15.13 and 15.14 Question 1, 5, 8, 10, 12, 14, 15
- * Page No. 16.5 and 16.6 Question 1, 4, 5, 8, 10, 11, 12
- * Page No. 16.15 Question 4, 5, 6, 9, 12, 14, 15, 18

SCIENCE

Compile all the questions in a separate notebook.

- 1- Distinguish between fertilizer and manure. Give suitable examples. What are the advantages and disadvantages of using fertilizers?
- 2- Explain the mechanism of compost formation.
- 3- Explain what will happen if in a cultivated field only manures are supplied and in another field only fertilizers are supplied, keeping all other conditions similar.
- 4- Define irrigation. Why is irrigation of crops essential? Mention the harmful effects of excessive irrigation.
- 5- Explain various types of irrigation systems in India. How can efficiency of applied water be increased in agriculture?
- 6- Compare between mixed cropping and intercropping. Write down one advantage of both of these techniques.

7- Explain the various methods of crop improvement. Name one improved variety of rice, maize, soyabean, sunflower and mustard.

8- Discuss the various methods which are used to control plant diseases.

9- Explain the various preventive measures against insect pests.

10- What is feed? What are different types of feed? How is it different with respect to age and functions?

11- What is artificial insemination? Describe this technique.

12- Write a short note on prevention of animal diseases.

13- For increasing production, what is common in poultry, fisheries and bee-keeping?

14- How do you differentiate between capture fisheries, inland fisheries and aquaculture?

15- What is an ion? How is an ion formed? Explain with the help of two examples of different ions.

16- The valencies (or charges) of some of the ions are given below:

Sodium ion – 1+

Ammonium ion – 1+

Calcium ion – 2+

Lead ion – 2+

Chloride ion – 1–

Hydroxide ion – 1–

Sulphate ion – 2–

Phosphate ion – 3–

Using this information, write down the formulae of the following compounds:

(a) Sodium phosphate

(b) Calcium hydroxide

(c) Ammonium sulphate

(d) Lead bromide

17- What is the difference between a cation and an anion? Explain with examples.

18- The valencies (or charges) of some of the ions are given below:

Sodium ion – 1+

Copper ion – 2+

Nitrate ion – 1–

Sulphide ion – 2–

Using this information, write down the formulae of:

(a) Sodium sulphide

(b) Copper nitrate

19- Explain the formation of (a) sodium ion and (b) chloride ion, from their respective atoms giving the number of electrons lost or gained in each case. Why does sodium ion carry a positive charge and chloride ion a negative charge?

20- Write the symbols/formulae of two simple ions and two compound (polyatomic) ions.

21- An element Y has a valency of four. Write the formulae for its:

(a) Chloride

(b) Oxide

© Sulphate

(d) Carbonate

€ Nitrate

22- (a) Define formula unit of an ionic compound.

(b) What is the formula unit of (i) sodium chloride and (ii) magnesium chloride?

23- Calculate the formula masses of the following compounds:

(a) Calcium chloride

(b) Sodium carbonate

(Given: Atomic masses – Ca = 40 u, Cl = 35.5 u, Na = 23 u, C = 12 u, O = 16 u)

24- Define motion. Give two examples of objects in motion.

25- What is distance? How is it different from displacement?

26- Define speed and velocity. Write their SI units.

27- What is acceleration? When is acceleration said to be negative

- 28- Write the three equations of uniformly accelerated motion.
- 29- Draw a distance–time graph for uniform motion. What does its slope represent?
- 30- State Newton’s first law of motion. Give one daily life example.
- 31- Define momentum. Write its SI unit.
- 32- State the universal law of gravitation. Write its mathematical expression.
- 33- Define acceleration due to gravity. Write its value on the surface of the Earth.
- 34- What is mass? How is it different from weight?
- 35- State Archimedes’ principle. Write one application of it.

SOCIAL SCIENCE-

Compile all the activities in a scrapbook.

Activity 1-

Electoral Politics Mock Campaign

Task: Imagine you are running for “school captain” election.

Create: A manifesto (list of promises), a party symbol and slogan.

Write-up: Explain why your manifesto is better than a rival's using terms like “code of conduct” and voter’s list.

Activity 2-

Disaster Management : Topic: "Choose one recent disaster

Report Structure :

- Causes (Human induced Vs Natural)
- Impact on life and economy
- Mitigation Strategies (what did the govt do? what could be done better?)
- Survival Kit : A photo or list of items for a survival kit specific to that disaster.

Activity - 3

"Travel Brochure"

Task : Design a travel brochure for Andaman & Nicobar Islands or Lakshadweep

Include : A map (draw), details on the flora / fauna, climate, local tribes (photo), and sustainable tourism tips.

Activity - 4

"Voices of the Revolution" - Diary

Task: Create a 5-day diary entry from the perspective of a fictional character living during the French Revolution (e.g. a peasant, a noble, or a woman) or Nazi Germany (e.g. a Jewish student or a member of the Hitler Youth).

Requirement: The entries must describe daily life, the changing political atmosphere and specific historical events.

MOST IMPORTANT

- **Write 1 page on importance of "Veer Bal Diwas" in Hindi or English on a colourful sheet.**
- **90% of the homework is offline Please don't use mobile phone.**

For any query please connect Mrs. Ruchika Rawat or Mr. Devansh Kohli between 11:00 am to 12:00 noon on 9634319234, 7906097284.