



The Royal College

SUMMER HOLIDAY HOMEWORK

SESSION

2025-26

STD-X

Dear Parents and Students,

At the outset, we extend our heartfelt appreciation for the unwavering support, steadfast commitment, positivity and enthusiasm you have brought to the start of this new academic year.

Summer is not just a break, it's a reminder to reconnect with your passions, try a new skill, and spend meaningful moments with your family. Relax, recharge, but manage your time wisely. Stay energized, stay hydrated, and make each day purposeful. Don't let procrastination steal your spark! **"A stitch in time saves nine" take the time now to plan and organize your summer learning. Small efforts early can save you a lot of time later!**

At **The Royal College**, we believe that learning is a journey without a pause. This year's Holiday Homework has been thoughtfully designed to blend academics with creativity, ensuring you remain engaged while enjoying the freedom of summer.

Dear students, this is that time of the year to dive into new realms of thought, ignite your imagination, and create memorable moments. Let your curiosity be your compass as you embark on the adventure of reading captivating books, exploring the world through current affairs, and giving life to your ideas through writing. Push the boundaries of your creativity and ask questions that lead to uncharted discoveries. Watch how growth quietly blooms, when you experiment, explore and evolve.

As the **FIFA Club World Cup 2025** draws near, let the spirit of sportsmanship inspire you. Step outdoors, stay fit, and cultivate healthy habits instead of drifting into endless screen time or unhealthy routines. Let the musician in you strum a melody, the artist in you brings a colourful canvas to life, and the reader in you devour wonderful books, the possibilities are endless!

Your teachers have crated meaningful and engaging assignments not mere tasks, but opportunities to think critically, imagine freely, and showcase your talents. Subject-specific worksheets and project guidelines are available under the respective Subject Cards. Infuse your projects with originality and enthusiasm.

May your summer break be refreshing and unforgettable. We eagerly await your return, filled with new experiences, fresh skills, and smiles as radiant as the summer sun!

HAPPY HOLIDAYS!

English

Compile your homework in a separate notebook.

Activity 1- Make illustrative presentation of the poems taught in class. It can be through charts or flash cards.

Activity 2- Read chapters 1-4 from both **First Flight** and **supplementary** and write about the characters in 20-40 words.

Activity 3- Reading Skill

Read the novel "**You are born to blossom**" by **A.P.J. Abdul Kalam**. Mention the details in brief and how it changed your perception towards life. (**Purchase book from Amazon and get the book along with HHW to school**). <https://shorturl.at/599dV>

Activity 4- Write a diary entry from a perspective of a historical figure. (Ex. A notable scientist, or a fictional character).

Hindi

क्रियाकलाप 1 -अनुच्छेद लेखन- (शब्द सीमा 100 से 120 शब्द)

- मतदान का महत्व
- स्वच्छता में आम आदमी की भूमिका
- यांत्रिक सुधारों का पर्यावरण पर प्रभाव

क्रियाकलाप 2 -लघु कथा लेखन (शब्द सीमा- 100 से 120 शब्द)

- मन के हारे हार हैं मन के जीते जीत
- पर उपदेश कुशल बहुत तेरे

क्रियाकलाप 3-सूचना लेखन (शब्द सीमा- 60 शब्द)

- विद्यालय में आपको एक पहचान पत्र मिला है इस संबंध में एक सूचना लिखें।
- प्रधानाचार्य के द्वारा विशेष कक्षा का आयोजन कराने के संदर्भ में सूचना लिखिए।

क्रियाकलाप 4-विज्ञापन लेखन (शब्द सीमा- 40 शब्द)

- दीपावली के उत्सव पर किसी इलेक्ट्रॉनिक उत्पाद की कंपनी की ओर से धमाका सेल का विज्ञापन लिखिए।
- साधना स्वयंसेवी संस्था की ओर से एक विज्ञापन लिखिए।

Mathematics

Do the following questions from RD Sharma book in a separate notebook.

Chapter-3: Pair Of Linear Equations In Two Variables.

Page no. :113 -Example -1,2

Page no.:115 -Example-5,6

Page no. :118 -Exercise-3.3-

Q.2, 4, 6, 8, 9, 12, 14, 18, 19, 21, 24, 25.

Page no. :140 and 141 Exercise -3.6-Q.2,3,5,6,7,9,10.

Page no. :145- Exercise-3.7-Q.2,4,6,7,8,9,10

Chapter-4 -Quadratic Equations.

Page no. -180-Exercise -4.3 Q. 2,4,5,9,10,14,15,20,25,26,29,30.

Page no.-191- Exercise-4.5 Q.1,3,4,5,10,12,15,16,18,19.

Page no-199-Exercise -4.6 Q. 1,3,4,6,7,9,10,12,15,16,18,19.

Page no. 212- Exercise -4.10- Q.2,4,5.

Chapter-5- Arithmetic Progression.

Page no. 238- Exercise -5.4 Q.2,5,8,9,10,11,12,15,18,19,22,27,28,30,31,35,36,37.

Page no.258- Exercise 5.6

Q.2,3,5,9,12,13,14,15,16,17,18,21,23,25,26,29,32,33,35,38,40,42,44,45,46.

Chapter-7 -Coordinate Geometry.

Page no.277- Exercise- 6.2 Q.2,3,4,6,8,10,11,17,19,20,21,23,24,28,29,30,32,33.

Page no. 286 -Exercise 6.3

Q.2,4,5,8,10,12,14,15,16,17,18,19,20,22,23,25,26,27,30,31,33,34.

Science

Compile your work in a separate notebook.

Chapter – Chemical Reaction and Equation.

1. What is a chemical reaction? Write one example.
2. Write a balanced chemical equation for the reaction of hydrogen with oxygen to form water.
3. Why is it necessary to balance a chemical equation?
4. What is meant by a skeletal chemical equation? Write an example.
5. Define the following with one example of each: a) Combination reaction b) Decomposition reaction
6. Identify the type of chemical reaction in the following: a) $\text{Zn} + \text{H}_2\text{SO}_4 \rightarrow \text{ZnSO}_4 + \text{H}_2$ b) $\text{CaCO}_3 \rightarrow \text{CaO} + \text{CO}_2$
7. What happens when magnesium ribbon is burned in air? Write the balanced equation.
8. State the chemical equation for the reaction of iron with copper sulfate solution. Name the type of reaction.
9. What is a displacement reaction? Give two examples.
10. Write the chemical equation for the reaction between sodium carbonate and hydrochloric acid. What type of reaction is this?
11. A student added dilute HCl to a test tube containing zinc granules. What observation would you record? Write the balanced chemical equation. (CBSE PYQ)
12. What change is observed when silver chloride is left in sunlight? Write the chemical equation for the reaction involved. (CBSE PYQ)
13. Why decomposition reactions are called the opposite of combination reactions? Give one example of each. (CBSE PYQ)
14. How do we come to know that a chemical reaction has taken place? List any four observations. (CBSE PYQ)
15. Balance the following equations: a) $\text{Fe} + \text{H}_2\text{O} \rightarrow \text{Fe}_3\text{O}_4 + \text{H}_2$ b) $\text{Na} + \text{H}_2\text{O} \rightarrow \text{NaOH} + \text{H}_2$
16. What is corrosion? Write one method to prevent it. (CBSE PYQ)
17. Explain rancidity. How can it be prevented? (CBSE PYQ)
18. What are exothermic and endothermic reactions? Give one example of each. (CBSE PYQ)
19. When do you observe a color change in a chemical reaction? Explain with an example.
20. Write one example of each: a) Redox reaction b) Precipitation reaction

Activity

Make a table of at least five chemical reactions you have observed in real life. Mention:

- A) Reactants.
- B) Products.
- C) Type of reaction.
- D) Application/use in daily life.

Social studies

Compile your work in a separate notebook.

- 1- How is Cement Industry responsible for Land Degradation.
- 2- Suggest two ways for Conservation of Resources.
- 3- Why is Planning essential in India. Give some examples.
- 4- “India is rich in certain types of resources, but deficient in some other resources”. Do you agree with the statement.
- 5- Explain the role of Human in Resource Development.
- 6- What are the main advantages of India’s land under a variety of Relief features.
- 7- Describe the main characteristics of Black soil.
- 8- Give reasons why the future generations may not have sufficient resources as compared to the present generations.
- 9- Describe the main characteristics of Alluvial soil found in India.
- 10- Evaluate the power sharing model in India.
- 11- Describe the main characteristics of Arid soil.
- 12- Compare the ways in which Belgium and Sri Lanka have dealt with cultural diversity.
- 13- Explain three elements of Belgium model of accommodation.
- 14- Describe the ways in which power can be shared among Governments at different levels.
- 15- Differentiate between Horizontal and Vertical division of powers.
- 16- Mention any four characteristics of Development.
- 17- What do you mean by Public Facilities. Why are they important. Name any four Public Facilities available in India.
- 18- “Consequences of environmental degradation do not respect national or state boundaries”. Justify the statement.
- 19- Explain the criteria used by Human Development Report to classify various countries.
- 20- What is Human Development. Explain its indicators.
- 21- Imagine a village with abundant natural resources but low development. Suggest steps the Local Government can take to ensure Sustainable Development.
- 22- If you were a policymaker, how would you promote the Judicious use of resources in Urban areas.

- 23- Why do you think resource planning is essential in a country like India with diverse Relied features.
- 24- Suppose the overuse of groundwater continues unchecked. Predict and describe the impact this will have on Rural livelihoods.
- 25- “Land Degradation is a major threat to India’s environment”. Justify this statement with example.
- 26- Imagine you are a student in Belgium. How would you explain the concept of accommodation to your Indian friend.
- 27- Write a short story where power sharing helps resolve a school conflict. Relate it to political power sharing.
- 28- Debate: “Power sharing ensures unity in diversity”. Present arguments both for and against.
- 29- Imagine you were a constitution maker in Sri Lanka. What would you have done to avoid the conflict.
- 30- Which power sharing arrangement (among organs, levels or social groups) do you think is most effective in maintaining democracy. Justify your answer.
- 31- Write a letter to your Local Government suggesting ways to reduce income inequality in your region.
- 32- Different people have different development goals. Create three characters (E.g. Farmer, Teacher, Factory worker) and write their development goals.
- 33- If you were a policymaker, what steps would you take to ensure both Economic Growth and Human Development.
- 34- Imagine a village that used to rely only on agriculture. Suggest a plan to diversify its Economy and improve quality of life.
- 35- Do you think the Human Development Index is a better measure than Per Capita Income. Support your answer with examples.
- 36- Explain how development in one sector (like Education) can influence other sectors (like Health or Employment).
- 37- “Beyond Money – True development matter”. Justify the statement.
- 38- Do you think rise Per Capita Income actually benefits everyone equally.
- 39- How can Local Communities participate in Land Conservation. Suggest some ways.
- 40- If you were to design a constitution for a new country, what power sharing principles would you include and why.
- 41- “Our resources, our responsibility”. Explain this statement with reference to the overutilisation of resources.
- 42- What is Soil Erosion. Mention its causes.
- 43- What were the reasons for the tensions in Sri Lanka.
- 44- Compare power sharing arguments in Belgium and Sri Lanka.
- 45- Why is average income not a reliable indicator of development.
- 46- Explain how Soil is formed. Name the factors responsible for Soil formation.

- 47- Discuss non-monetary goals that people may have for development.
- 48- Compare two states based on their income and life expectancy. What does this tell us about development.
- 49- How did majoritarian policies of the Sri Lanka Government create conflict in the country.
- 50- Explain Natural causes and Human causes of Soil Erosion.

Activity 1: Case Study Analysis – Belgium and Sri Lanka.

Objective: To understand the significance of power sharing.

Instructions:

- Provide a case study summary of Belgium and Sri Lanka.
- Analyze how power sharing worked in Belgium and what went wrong in Sri Lanka.
- Create a comparison chart and discuss in class.

Activity 2

Objective: To learn about different types of soil and their distribution.

Instructions:

- On the Physical Map of India mark the major types of soil (Alluvial, Black, Red, Laterite, Mountain, Desert).
- Use a color code and include a legend/key.
- Also, write two crops best suited for each soil.

MOST IMPORTANT:

- **DO A GOOD SOCIAL WORK PER WEEK, CLICK PICTURES, PASTE AND WRITE IT IN THE SCRAPBOOK.**
- **PLANT A SAPLING ON “WORLD ENVIRONMENT DAY” (5 JUNE), CLICK A PICTURE WITH IT AND WRITE A PARAGRAPH ON WORLD ENVIRONMENT DAY. PASTE IT IN THE SCRAPBOOK.**
- **90% OF THE HOMEWORK IS OFFLINE. PLEASE DON'T USE MOBILE PHONES.**

For any query, please connect Ms. Ruchika between 11:00 am to 12:00 noon on 7819823748.