



# RAJA RAMMOHAN ROY ACADEMY

"Learning, laughter, and lovely summer days!"



Dear Parents,  
Greetings!

Summer vacation is a wonderful time for children to relax, refresh, and explore new learning experiences. To keep our students engaged in productive and creative activities during the holidays, we have prepared the Summer Holiday Homework.

The homework has been designed to enhance your child's creativity, thinking skills, and subject knowledge in an enjoyable way. We kindly request you to encourage and guide your child to complete the work neatly and sincerely within the given time.

Motivate your child to develop reading habits by encouraging him/her to read books and practice writing daily. Kindly limit excessive screen time and involve your child in creative and outdoor activities. Ensure that your child follows a healthy routine with proper sleep, exercise, and nutritious food.

We hope your child enjoys the holidays while learning something new every day.

Wishing you and your family a happy, safe, and joyful summer vacation!

Warm regards,  
Raja Rammohan Roy Academy



**RAJA RAMMOHAN ROY ACADEMY, DEHRADUN**  
**Summer Holiday Homework , 2026-27**  
**Class – VIII**

Subject	Homework
<b>English Language</b>	<p>1. Imagine an enchanted forest and describe a walk through it in your own words. (Draw suitable pictures to make your description more attractive.)</p> <p>2. “Tourism may promote the economy, but it degrades the environment.” Write an argumentative composition either FOR or AGAINST the statement.</p> <p>3. Write 100 idiomatic expressions and construct meaningful sentences using each of them.</p> <p>(Revise the topics taught in class, Do all the work in A4 sheet)</p>
<b>English Literature</b>	<p>1. Write a short book review on an A4 sheet about a book you read during the summer vacation.</p> <p>(Paste or draw a picture of the book as well.)</p> <p>2. Select any poem from your textbook and present it creatively through any one of the following:</p> <ul style="list-style-type: none"><li>*Drawing</li><li>*Collage</li><li>*Digital Art</li></ul>
<b>Hindi</b>	<p>1 हमारा पर्यावरण : संकट और समाधान'विषय पर एक अनुच्छेद लेखन कीजिए।</p> <p>2 हिंदी की एक कहानी पढ़कर A4 साइज पेपर में उस कहानी की पुस्तक समीक्षा(बुक रिव्यू) लिखें।</p>
<b>Mathematics</b>	<p>Creative Activities</p> <p>1. Square Root Art Activity Create a colorful “Math Garden” using square numbers. Example: Draw flowers with petals numbered 1, 4, 9, 16, 25, 36... Write their square roots on leaves. Also answer: <math>\sqrt{49} = ?</math> <math>\sqrt{121} = ?</math> <math>\sqrt{225} = ?</math></p> <p>2. Cube Root Tower Challenge Make towers using matchsticks, blocks, or paper cubes. Find: <math>\sqrt[3]{8}</math> <math>\sqrt[3]{27}</math> <math>\sqrt[3]{64}</math> <math>\sqrt[3]{125}</math> <math>\sqrt[3]{216}</math> Then draw or paste pictures of cube-shaped objects found at home.</p> <p>3. Sets Around Me Create 3 sets using real-life objects.</p>

Example:  
 Set A = Fruits  
 Set B = Red-colored objects  
 Set C = Stationery items  
 Perform:  
 Union (A U B)  
 Intersection (A n B)  
 Difference (A – B)  
 Represent them using colorful Venn diagrams.  
 4. Rational Number Temperature Chart  
 Record temperatures of your city for 7 days using positive and negative rational numbers.  
 Example:  
 Morning: 18.5°C  
 Night: -2.5°C  
 Then:  
 Arrange them in ascending order.  
 Find the average temperature.

**Physics**

Instructions:

- Do the holiday homework on loose sheets stapled together.
- Write neatly and draw diagrams with proper labels.
- Use coloured pencils for diagrams wherever required.

1. Riya spilled some water on the floor during summer. After some time, the water disappeared without heating. Later, she heated water in a kettle and noticed bubbles forming throughout the water at a fixed temperature.  
 Based on the above situations, answer the following questions:

- a. Which process takes place when the water on the floor disappears?
- b. Which process takes place in the kettle?
- c. State any three differences between evaporation and boiling.
- d. Why do wet clothes dry faster on a hot and windy day?
- e. Mention one practical use each of evaporation and boiling.

2. A ship made of iron floats on water, while a small iron nail sinks. Explain this observation using the concept of density.

3. A shopkeeper sprays perfume in one corner of a room, and after a few seconds people standing far away can smell it.

- a. Which property of matter is shown here?
- b. Name the process responsible for this observation.
- c. In which state of matter does this process occur fastest?

4. A metal block has a mass of 200 g and occupies a volume of 50 cm<sup>3</sup>.

- a. Calculate the density of the block.
- b. Write the formula used.
- c. Identify whether the block will sink or float in water if the density of water is 1 g/cm<sup>3</sup>.

5. A shopkeeper has two equal-sized containers — one filled with oil and the other filled with mercury. He notices that the mercury container is much heavier than the oil container. A science student explains this using the concepts of density and relative density.  
 Answer the following questions:

- a. Which physical quantity tells us why mercury is heavier than oil for the same volume?

	<p>b. Define density and write its formula. What is relative density?</p> <p>c. Write any three differences between density and relative density.</p> <p>d. Why does oil float on water while mercury sinks in water?</p> <p>e. A liquid has a relative density less than 1. What does this indicate about its density compared to water?</p> <p>f. A metal block has a mass of 300 g and a volume of 100 cm<sup>3</sup>. Calculate its density.</p> <p>g. Why does relative density have no unit?</p>															
<b>Chemistry</b>	<p>Activity 1: "Matter Hunt at Home"</p> <p>Find 10 different objects at home and classify them:</p> <table border="1"> <thead> <tr> <th>Object</th> <th>State (Solid/Liquid/Gas)</th> <th>Reason</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table> <p>Add pictures/drawings of at least 5 objects</p> <p>Activity 2: Comic Strip Creation</p> <p>Create a comic story showing:</p> <p>A physical change</p> <p>A chemical change</p> <p>Example: "The Story of a Rusty Nail"</p> <p>Revise the chapters done in class.</p>	Object	State (Solid/Liquid/Gas)	Reason												
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<b>Biology</b>	<p>1. Prepare an emergency first aid kit which should carry adhesive bandages, sterile gauze pads, cotton roll, antiseptic lotion and general medicines for cold and cough, fever, pain killers, burn relief cream/gel etc.</p> <p>2. Design your personal vaccination card which must carry following details-</p> <ol style="list-style-type: none"> <li>Name of vaccine</li> <li>Disease of vaccine</li> <li>Scheduled age</li> <li>Date, when vaccine was given</li> </ol> <p>d. Front cover should have a Header as Immunization Record followed by your details like full name date of birth, blood group and contact numbers of both the parents</p>															
<b>History/Civics</b>	<p>Design the front page of a newspaper called ' The voice of Revolution '</p> <p>Include-</p> <p>Headlines on the storming of the Bastille, a short interview with a revolutionary, a cartoon on inequality, and a Breaking News section.</p> <p>NOTE You can use handmade charts or digital tools.</p> <p>OR</p> <p>2 Make a 'Diary of a Commoner "</p> <p>Include-</p> <p>Imagine you are a poor farmer or worker living in France in 1789.</p> <p>Write two page entry describing your daily life, problems faced due to taxation, hunger, ill-treatment, your feelings for the king, noble and your hope to bring about a Revolution.</p> <p>Note</p> <p>Cartoons, pictures of poverty, Revolution, ill-treated can be added as you explain</p>															
<b>Geography</b>	<p>1. Make a project on Topic: How Heat waves Affected India This Year.</p> <ol style="list-style-type: none"> <li>Write a short introduction on:</li> <li>What is a heatwave?</li> <li>Why do heatwaves occur?</li> <li>Which parts of India are mostly affected?</li> </ol> <p>(Write in 1 page with pictures/maps.) Do work on A/4 size paper or file papers.</p> <p>2. Activity – Heat wave News Report</p> <p>*Collect news articles or pictures related to heat waves in India this year.</p> <p>*Paste at least 3 photos / newspaper cuttings and mention:</p>															

	<p>Place , Highest temperature, Problems faced by people.</p> <p>3.Make a labelled chart on Natural Disasters.</p> <p>4.Learn the Chapter 2- Population Dynamic.</p>
<b>Computer</b>	<p>1. Make a colour full poster on the topic " Computer Network" Size A4 sheets.</p> <p>2. Revise</p> <p>    Ch 1. Operating system</p> <p>    Ch2. Spreadsheets</p> <p>3. Make power point presentation on “Robots and Artificial Intelligence”. Get the printouts.</p>
<b>Art</b>	<p>Collect different flowers and petals, press and dry them carefully, and create a beautiful craft artwork using them</p> <p>Arrange your dried flowers creatively and decorate your work neatly in a frame or on a decorative sheet</p> <p>Bring your completed framed craft to school after the holidays with your name and class mentioned properly.</p>