

Ramjas International School
Summer Holidays Homework 2026-27
Class X

🌿 Eco-Friendly Submission Appeal

Dear Students & Parents,

Avoid using plastic, thermocol, or any non-biodegradable materials for Holiday Homework.

Use only eco-friendly options like paper folders or recycled sheets.

Work submitted in non-biodegradable materials or lamination will not be accepted.

Also, make the most of your holidays—travel, explore, learn new things, and spend quality time with your family.

Let's act responsibly for a greener future. 🌱

ENGLISH

INSTRUCTIONS

- Do not forget to add relevant visuals wherever required.
- Originality is compulsory. Any copied work will not be accepted.
- Do not share your work with anyone.
- Marks will be awarded based on creativity, depth of thought, and presentation.
- Selected entries will be considered for the school magazine *Sanchita 2026*.

1. **Visual Representation of Poetry**

Do a visual representation of any one of the following poems from the NCERT Book – First Flight and present it in the class:

- A Tiger in the Zoo
- The Ball Poem
- Amanda!
- The Tale of Custard the Dragon

How to do?

Use your imagination to convert the poem into a symbolic artistic representation such as collage making, sketching, or mixed media.

Your artwork should be self-explanatory. Mention:

- What you have depicted
- Why you chose that idea
- How it reflects the deeper meaning of the poem

Where to do?

A3 size sheet

Parameters for Assessment:

Relevance to content, interpretation, creativity, presentation

2. **Film Reflection**

Watch any ONE of the following films as per your roll numbers:

Roll no. 1–7: Freedom Writers

Roll no. 8–14: 12th Fail

Roll no. 15–21: 3 Idiots

Roll no. 22–28: The Pursuit of Happyness

Roll no. 29–36: Super 30

Write a **critical review** in about 1000-1200 words.

Include:

- Internal struggles (mind)
- Emotional conflicts (heart)
- Turning point in the story
- Message about resilience or pressure

Where to do?

On A4 size sheets

Parameters for Assessment:

Understanding, analysis, clarity, originality

3. **Portfolio**

Prepare a personal portfolio with the following:

- Introducing Myself
- My Strengths
- Areas I Need to Improve
- My Achievements
- Activities I Have Participated In
- Books I Have Read
- The Book I Wish to Read

Add the following reflections:

- A moment when I felt emotionally strong or weak
- What resilience means to me
- How I handle stress
- One change I want to bring in myself

Where to do?

Prepare a file using A4 size sheets

Parameters for Assessment:

Self-reflection, honesty, presentation, completeness

4.	<p>Short Creative Tasks (Any Two)</p> <ul style="list-style-type: none"> • Write a two-line original quote • Write a 100-word short story on “Not Alone” • Write a poem on “Silent Battles” • Write a message for teenagers on mental health <p>Where to do? On A4 size sheets</p> <p>Parameters for Assessment: Creativity, originality, expression</p>
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HINDI	
1.	<p>1. कॉमिक स्ट्रिप (Comic Strip): अपनी पाठ्यपुस्तक की कहानी 'बड़े भाई साहब' या 'ततारा-वामीरो कथा') को कॉमिक स्ट्रिप के रूप में दिखाएं। डायलॉग बॉक्स का प्रयोग करें और चित्र बनाएं। अथवा साहित्यिक पत्रिका (Literary Magazine): अपनी एक छोटी पत्रिका तैयार करें। इसमें अपनी स्वरचित कविताएँ, कहानियाँ, पहलियाँ और चुटकुले शामिल करें। इसका एक आकर्षक नाम भी रखें।</p>
2.	<p>पात्र का साक्षात्कार- कल्पना कीजिए कि आप किसी प्रसिद्ध पाठ के पात्र (जैसे 'हरिहर काका' या 'वज़ीर अली') का इंटरव्यू ले रहे हैं। समाज में बदलते रिश्तों तथा राष्ट्रीय हित पर प्रश्न पूछें।</p>
3.	<p>विज्ञापन निर्माण - किसी स्वदेशी उत्पाद (जैसे मिट्टी के बर्तन या सूती कपड़े) के लिए एक छोटा-सा वीडियो विज्ञापन (Script के साथ) तैयार करें।</p>
4.	<p>रेडियो जॉकी (RJ) कार्य: 'रियल लाइफ और रील लाइफ में अंतर' या 'आज का भारत' विषय पर एक 2 मिनट का रेडियो शो तैयार करें। उदाहरण: "नमस्कार! मैं हूँ आपका दोस्त [आपका नाम] और आप सुन रहे हैं रेडियो 10.0... आज हम बात करेंगे बचपन की यादों की!"</p>
5.	<p>हरिहर काका कहानी को पढ़ें और कल्पना करें कि आप इसे एक फिल्म के रूप में बना रहे हैं। जिसके लिए एक मूवी पोस्टर डिजाइन करें और बॉलीवुड अभिनेताओं की "कास्ट लिस्ट" लिखें जो आपको लगता है कि भूमिकाओं में फिट होंगे। और क्यों</p>

MATHS	
1.	<p><u>Activity : Design a City Map Using Linear Equations</u></p> <p>Objective: Create your own city map using straight roads represented by linear equations. Identify key places where roads intersect!</p> <p>Materials Needed: Graph paper (A3 or A4 size), Ruler, Pencil, eraser, colored pens, Calculator (optional)</p> <p>Instructions:</p>

Step 1: Plan Your City

Think of a theme for your city (e.g., Beach Town, Tech City, Historic Village).

Name your city creatively!

Step 2: Draw Roads

Write at least 6-8 linear equations in two variables (x and y). Each equation represents a road.

Example: Main Street: $y = 2x + 3$, River Lane: $x + 2y = 8$

Step 3: Plot the Roads

Use graph paper to carefully draw each road based on its equation.

Use different colors for different roads if you like.

Label each road with its name.

Step 4: Find Intersections

Solve pairs of equations to find where two roads meet.

Mark at least 5 key intersections.

At each important intersection, place a landmark such as: School, Hospital, Park, Shopping Mall, Fire Station

Step 5: Decorate Your Map

Add small drawings (trees, houses, rivers) around your landmarks if you want.

Keep your map neat and colorful!

Important Rules:

Plot all roads accurately.

Clearly label roads and landmarks.

2.

Activity : Investigating The Ratio Of Length Of The Sides Of A Right Triangle

Construct 4 sets of 3 right triangles ABC, PQR & LMN right angled at B, Q & M respectively as per the given dimensions.

Set I

$\angle A = 30^\circ$, $AB = 5\text{cm}$

$\angle P = 30^\circ$, $PQ = 7\text{cm}$

$\angle L = 30^\circ$, $LM = 3.5\text{ CM}$

Set II

$\angle A = 60^\circ$, $AB = 4\text{cm}$

$\angle P = 60^\circ$, $PQ = 6\text{cm}$

$\angle L = 45^\circ$, $LM = 4.5\text{ CM}$

Set III

$\angle A = 45^\circ$, $AB = 6\text{cm}$

$\angle P = 45^\circ$, $PQ = 3\text{cm}$

$\angle L = 45^\circ$, $LM = 7.5\text{ CM}$

Set IV

$\angle A = 75^\circ$, $AB = 6\text{cm}$

$\angle P = 75^\circ$, $PQ = 5\text{cm}$

$\angle L = 75^\circ$, $LM = 7.5\text{ CM}$

And then calculate the following ratios for each set of triangles.

$$1. \frac{AB}{AC} \quad 2. \frac{BC}{AC} \quad 3. \frac{AB}{BC} \quad 4. \frac{AC}{AB} \quad 5. \frac{AC}{BC} \quad 6. \frac{BC}{AB}$$

$$1. \frac{LM}{LN} \quad 2. \frac{MN}{LN} \quad 3. \frac{LM}{MN} \quad 4. \frac{LN}{LM} \quad 5. \frac{LN}{MN} \quad 6. \frac{MN}{LM}$$

$$1. \frac{PQ}{PR} \quad 2. \frac{QR}{PR} \quad 3. \frac{PQ}{QR} \quad 4. \frac{PR}{PQ} \quad 5. \frac{PR}{QR} \quad 6. \frac{QR}{PQ}$$

3. Practice work : Complete the worksheets for Chapters – Real Numbers, Triangles and Trigonometry from the worksheets booklet and Exemplar problems book.

SCIENCE

Dear students,

Science is an essential part of our daily life that helps us understand the world around us in a logical and systematic way. It encourages curiosity, observation, and experimentation. This holiday homework is designed to enhance our knowledge and develop a deeper understanding of important concepts from chapters like Chemical Reactions, Life Processes, and Light.

1. Draw neat and well-labelled ray diagrams of image formation by **Concave Mirror** and **Convex Mirror** in science register. Write at least **2–3 uses** of each mirror from your daily life.
2. **Flash Cards-** Prepare 2 **colourful flashcards** (A4 Size sheet) as per the following topics assigned (1 topic per page) :-

Roll No.	Topic
1-5	i) Combination reaction ii) Displacement reaction
6-10	i) Decomposition reaction ii) Reduction and oxidation reaction
11-15	i) Human alimentary canal ii) Breakdown of glucose by various pathways
16-20	i) Human respiratory system ii) Schematic sectional view of human heart
21-25	i) Schematic representation of transport and exchange of oxygen and carbon-dioxide ii) Excretory system in human beings
26-30	i) Internal structure of human heart showing blood flow ii) Nutrition in Amoeba
31-35	i) Excretion in plants ii) Activity to show carbon dioxide is necessary for photosynthesis

3. Complete i) NCERT ques., Worksheet of chapters: Chemical Reactions, Life Processes and Light
ii) Practical file work of all practicals performed before summer vacations.

SOCIAL SCIENCE

Dear Students,

To ensure productive utilization of your vacation time, you are assigned the following Holiday Homework. Please complete all tasks neatly and sincerely.

1. **Consumer Awareness Project**

Objective:

The purpose of this project is to make students aware of their rights and responsibilities as consumers and to understand the importance of consumer protection in daily life.

Instructions:

The project should be handwritten on A4 size sheets.

Maintain a neat and well-organized file with a proper cover page.

Include relevant pictures, newspaper clippings, case studies, and examples.

The project should be creative, informative, and well-presented.

Project Structure:

Cover Page

Title: Consumer Awareness Project

Name, Class, Section, Roll Number, School Name

Acknowledgement

A short paragraph expressing gratitude to teachers/parents for guidance

Index

List of topics with page numbers

Introduction

Meaning of Consumer Awareness

Importance in modern society

Consumer Rights

Right to Safety

Right to be Informed

Right to Choose

Right to be Heard

Right to Seek Redressal

Right to Consumer Education

Consumer Responsibilities

Be aware and informed

Check quality marks (ISI, AGMARK, etc.)

Ask for bills and receipts

Use products responsibly

Consumer Protection Act (Latest Provisions)

Brief overview

Role of government in consumer protection

<p>2.</p>	<p>Consumer Redressal System Three-tier system: District, State, and National levels How to file a complaint</p> <p>Standardization Marks ISI, AGMARK, Hallmark, FSSAI Importance and examples Case Study (Real-life Example) Any example of consumer exploitation and how it was resolved Conclusion - Importance of being a responsible consumer Bibliography - Books, websites, or sources referred</p> <p>Revision for Unit Test – Term 1 Students must thoroughly revise the syllabus covered so far in all subjects for the upcoming Unit Test. Ensure conceptual clarity. Practice questions from textbooks and notebooks. Revise class notes regularly.</p> <p>Important Note As responsible and compassionate individuals, students are encouraged to contribute positively to their surroundings. During the scorching summer heat, kindly keep water bowls outside your homes for stray animals. If possible, you may also feed stray animals and ensure they have access to basic care. Submit your Holiday Homework on the first day after vacation.</p>
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ARTIFICIAL INTELLIGENCE	
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<p>1.</p> <p>2.</p>	<p>Create AI Practical file on Jupyter notebook. Write the following programs:</p> <ul style="list-style-type: none"> • Write a program to print Hello World. • Write a program to find the sum of two numbers entered by the user. • Write a program to find the product of the numbers entered by the user • Write a program to find the difference of the numbers entered by the user • Write a program to print user entered natural numbers • Write a program to print odd numbers between the user entered range • Write a program to check if a number is even or odd • Write a program to check if a number is positive or not positive • Write a program for loop to print a pattern • Write a program for loop to print even numbers from 2 to 10 • Write a program for loop to print alternate numbers from 1 to 10. <p>Do the 27 programs given on Pg 489 onwards in the AI book.</p> <p>Submit the Google Colab notebook link in the google form https://forms.gle/Ap4XdpsVcjlw99rmk9 Do not forget to give the access with viewer rights</p>
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	ART
<ol style="list-style-type: none"> 1. 2. 3. 4. 5. 	<p>Visit and Study any pre-colonial painting styles at National gallery of Modern Art, New Delhi -</p> <ul style="list-style-type: none"> • Mughal Painting • Rajput Painting • Pahari Painting • Madhubani / Folk Art <p>Write about:</p> <p>Origin and region, key features (colors, themes, techniques), famous subjects (nature, mythology, court life, etc.)</p> <ul style="list-style-type: none"> • Composition Painting (A3 Sheet) • Create a painting inspired by any one • (Medium- Poster colours / watercolours) <p>Study of Motif Design used during that time.</p> <p>Draw and color 5 traditional motifs:</p> <p>Lotus, peacock, elephant, floral patterns, borders, etc</p> <p>Write a short reflection about your visit to NGMA (1–2 pages):</p> <ul style="list-style-type: none"> • What kind of paintings you saw. • Which style inspired you the most and why • What you learned about Indian heritage through art <p>You may also make a mini art journal with sketches of traditional elements OR Create a bookmark or greeting card using pre-colonial designs.</p> <p>Write a short paragraph: “If I were a painter in ancient India...”</p>
	MUSIC
<ol style="list-style-type: none"> 1. 2. 3. 4. 5. 6. 	<p>Project File (Music Theory): Draw, label, and explain the structure of the Tanpura.</p> <p>Write the notation, aroha, avroha, pakad, and introduction of Raag Bhupali.</p> <p>Describe the structure and table of Taals, such as Rupak (7 beats) and Tilwada (16 beats).</p> <p>Practical Work: Prepare and record a traditional folk song from your region, detailing its origin and meaning. Practice the ragas taught in class for the upcoming periodic assessment.</p> <p>Research Project: Research a prominent musical Gharana (school), including its history, key artists, and contributions to classical music.</p> <p>Identify and draw musical instruments traditional to specific Indian states.</p> <p>Important Guidelines: Projects should be handwritten on A4 sheets, featuring diagrams and neat, organized musical notation. Ensure to explain the "meaning" of folk songs rather than just writing lyrics.</p> <p>Complete all pending theory questions provided in the school curriculum.</p>