



RAHUL INTERNATIONAL SCHOOL SUMMERBREAK HOLIDAY HOMEWORK





Academic Session (2026-27)

GRADE-X

 Summer Holiday Message 

With summer holidays around the corner, our hearts swell with a spectrum of emotions– joy, excitement, and the promise of rejuvenation.

To ensure the continuity of learning while allowing ample time for rest and creativity, we have designed an enriching Holiday Homework. It aims to keep you constructively engaged and help chase away boredom in meaningful ways.

-  Begin your day with a good book.
-  Make it a habit to read an English newspaper daily.
-  Complete your holiday assignments sincerely.
-  Stay connected with your subject teachers for any support.

Unleash your imagination, nurture your talents, and let your creativity shine. Have fun, stay safe, and make this summer a time of joyful learning and memorable moments.

**Happy Holidays! —
The Rahul International School**



Rahul International School
HOLISTIC EXCELLENCE

RAHUL INTERNATIONAL SCHOOL

CLASS- 10th

Summer Holidays (2026-27)

Homework

S N o	Subjects	Work
1.	हिंदी	<p>1. अपठित गद्यांश प्रतिदिन हिंदी समाचार पत्र पढ़िए तथा किसी एक समाचार का 100 शब्दों में सार लिखिए।</p> <p>2. रचनात्मक लेखन (क) अनुच्छेद लेखन निम्न विषयों में से किसी एक पर 150-200 शब्दों में अनुच्छेद लिखिए: पर्यावरण संरक्षण मोबाइल फोन के लाभ और हानि मेरा प्रिय त्योहार समय का महत्व (ख) पत्र लेखन अपने मित्र को ग्रीष्मावकाश के संबंध में लिखिए, इस विषय पर पत्र लिखिए।</p> <p>3. परियोजना कार्य विषय: “भारतीय संस्कृति और त्योहार” किसी एक भारतीय त्योहार का चित्र सहित विवरण तैयार कीजिए। उसकी विशेषताएँ, महत्व और उससे मिलने वाली सीख लिखिए। 4-5 चित्र चिपकाइए।</p> <p>4. कविता लेखन “प्रकृति” विषय पर 8-10 पंक्तियों की स्वयं रचित कविता लिखिए।</p> <p>5. पाठ आधारित कार्य क्षितिज/स्पर्श पुस्तक के किसी एक पाठ का: सारांश मुख्य पात्रों का परिचय सीख लगभग 1-2 पृष्ठों में लिखिए।</p> <p>6. व्याकरण अभ्यास निम्न लिखित का अभ्यास कीजिए: 20 मुहावरे और उनके अर्थ 20 पर्यायवाची शब्द 20 विलोम शब्द समास के 10 उदाहरण</p> <p>7. पठन कार्य ग्रीष्मावकाश में कोई एक हिंदी कहानी/उपन्यास पढ़िए और उसका संक्षिप्त पुस्तक समीक्षा लिखिए।</p> <p>8. सुंदर लेखन प्रतिदिन एक पृष्ठ सुंदर हस्त लेख में लिखिए।</p>

2	English	<p>Prepare a creative and informative portfolio on “Tenses in English Grammar.” Your portfolio should include:</p> <ol style="list-style-type: none"> 1. Definition of tense 2. Types of tenses – Present, Past, and Future 3. Subtypes of each tense with rules and sentence structures 4. At least 5 examples for each tense 5. Daily life examples or short paragraphs using different tenses 6. A comparison chart of all 12 tenses 7. Pictures, charts, or illustrations to make the portfolio attractive 8. One self-written story or diary entry using all types of tenses 9. Conclusion explaining the importance of tenses in communication <p>*Instructions:*</p> <ul style="list-style-type: none"> * Make the work neat, colorful, and well-organized. * Use A4 sheets/file folder. * Add a decorative cover page and index. * Write in your own handwriting.
3	S. St.	<p>*Part A: -* Write the answer in 500 words.</p> <ol style="list-style-type: none"> 1: - Differentiate between the Prudential and Moral reasons for power sharing with one example each. 2:- What was the majoritarian policy adopted by the Sri Lankan government in 1956, and what was its immediate impact on the Tamil population? 3:- Explain the concept of Horizontal Distribution of Power. Why is it also called a system of "Checks and Balances"? 4:- Federalism <p>Distinguish between "Coming Together" and "Holding Together" federations. Provide two country examples for each.</p> <ol style="list-style-type: none"> 5 :- What is the role of the Judiciary in a federal system, particularly when disputes arise between different tiers of government? 6:- Explain the three-fold distribution of legislative powers between the Union and State governments under the Indian Constitution. Give two subjects for each list. <p>*Part B*: - CREATIVE CORNER & PROJECT WORK (Choose ANY ONE of the following activities to present on an A4 sheet or chart paper)</p> <p>*Option 1: * The Decentralization Wall Magazine Interview a local representative (Gram Panchayat member, Sarpanch, or Municipal Councillor) or research online about your local government body. Create a report covering: Their roles and responsibilities. Major sources of income for the local body. One major developmental work done in your locality recently.</p> <p>*Question 2: -* Graphic Organizer / Mind Map Draw a comprehensive, colorful mind map depicting the four forms of power sharing studied in Chapter 1, giving real-world examples for each form.</p>
4	Science	<p>Biology Holiday Homework: -Prepare a project file on any one topic:</p> <ol style="list-style-type: none"> 1.Human Digestive System 2.Control and Coordination 3.Respiration in Organisms

		<p>4.Conservation of Environment 5.Reproductive Health</p> <p>Include: -Cover Page -Introduction -Diagrams/Pictures -Explanation of Topic -Interesting Facts -Conclusion -Bibliography</p> <p>•Instructions: - -Complete the homework neatly in a separate biology notebook/file. -Draw neat and labelled diagrams using pencils and colours. -Use coloured pens for headings. -Submit the homework after the summer vacation. -Learn the all work from notebook.</p> <p>Physics and Chemistry Please find attachment</p>
5	Maths	<p>Chapter 1 – Real Numbers 1. Learn and write all properties of real numbers. 2. Solve 10 questions based on HCF and LCM using Euclid’s Division Algorithm. 3. Prove any 3 irrational numbers. 4. Complete all exercises from the chapter neatly.</p> <p>Chapter 2 – Polynomials 1. Write 15 examples of polynomials and identify their degrees. 2. Find the zeroes of 10 polynomials. 3. Verify the relationship between zeroes and coefficients for 5 polynomials. 4. Solve all textbook exercises carefully.</p> <p>Chapter 8 – Introduction to Trigonometry 1. Learn trigonometric ratios and formulas. 2. Write the trigonometric table from 0° to 90°. 3. Solve 15 questions based on trigonometric ratios. 4. Prepare a colourful chart of trigonometric identities.</p> <p>Chapter 9 – Some Applications of Trigonometry 1. Draw diagrams based on heights and distances. 2. Solve 10 application-based questions from the chapter. 3. Practice drawing neat labelled figures. 4. Complete all NCERT exercises in your notebook.</p> <p>Activity Work * Prepare a Maths Formula File using coloured sheets. * Revise all formulas daily. * Practice mental calculations for at least 20 minutes every day.</p>
6	Computer	<p>Roll No. 1 To 5 Topics: - Communication skills & Revisiting AI project cycle & Ethical framework for AI</p> <p>Roll No. 6 To 10 Topics: - Self Management skills & Evaluating Models</p> <p>Roll No. 11 To 15</p>

Topics: - ICT Skills & Statistical Data (Unit-4)

Roll No. 16 To 20

Topics: - Entrepreneurial Skills & Computer Vision, Natural language processing
Your portfolio should include relevant pasted or drawn picture. Maintain neatness and cleanliness in the Portfolio. It is essential that the content is written in your own handwriting; submissions identified as being written by another individual will not be accepted.

Subject: Science

Chapter: Reflection and Refraction of Light

Topic: Reflection of Light

Instructions

1. Do all the work neatly in a separate holiday homework file.
2. Draw all ray diagrams using pencil and ruler.
3. Write all steps clearly in numerical.
4. Learn all definitions, laws, and diagrams properly.
5. Submit the homework after summer vacation.

SECTION – A : Laws of Reflection and Plane Mirror

Q.1 State the two laws of reflection of light with a neat labelled diagram.

Q.2 Differentiate between regular reflection and diffused reflection.

Q.3 State any four characteristics of the image formed by a plane mirror.

Q.4 Why is the image formed by a plane mirror laterally inverted? Explain with an example.

Q.5 An object is placed 4 m in front of a plane mirror. Find:

- (a) Distance of image from the mirror
- (b) Distance between object and image

Q.6 A person stands 2.5 m away from a plane mirror. How far is the image from the person?

Q.7 Why are convex mirrors used as rear-view mirrors in vehicles?

Q.8 Why are concave mirrors used in torches, headlights, and searchlights?

Q.9 Draw a neat diagram showing reflection from a plane mirror and mark:

- (a) Incident ray
- (b) Reflected ray
- (c) Normal
- (d) Angle of incidence
- (e) Angle of reflection

SECTION – B : Tough Numericals on Mirrors

Q.10 An object 5 cm high is placed at a distance of 30 cm from a concave mirror of focal length 15 cm. Find:

- (a) Position of image
- (b) Nature of image
- (c) Magnification
- (d) Height of image

Q.11 A concave mirror produces an image three times magnified on a screen placed 45 cm away from the mirror. Find:

- (a) Object distance
- (b) Focal length of mirror

Q.12 An object is placed 12 cm in front of a convex mirror of focal length 18 cm. Find:

- (a) Position of image
- (b) Magnification
- (c) Nature of image

Q.13 A concave mirror of focal length 20 cm forms an image at a distance of 60 cm from the mirror. Find the object distance.

Q.14 A 4 cm tall object is placed 25 cm from a concave mirror having focal length 10 cm. Find:

- (a) Position of image
- (b) Height of image
- (c) Magnification

Q.15 A convex mirror has focal length 15 cm. An object is placed 30 cm from the mirror. Calculate:

- (a) Image distance
- (b) Magnification

Q.16 An object is placed between pole and focus of a concave mirror. State:

- (a) Nature of image
- (b) Position of image
- (c) Size of image

Q.17 A dentist uses a concave mirror of focal length 8 cm to see an enlarged image of a tooth. If the image is formed at 24 cm from the mirror, find the position of the tooth.

Q.18 An object is placed at a distance of 40 cm from a concave mirror of focal length 20 cm. Find the image distance using mirror formula.

Q.19 A concave mirror forms a real image double the size of the object at a distance of 30 cm. Find the focal length of the mirror.

Q.20 An object is placed 50 cm in front of a convex mirror of focal length 25 cm. Find:

- (a) Image distance
- (b) Magnification

Q.21 A concave mirror of focal length 12 cm forms an image at infinity. Where should the object be placed?

Q.22 A 6 cm tall object is placed 24 cm in front of a concave mirror of focal length 18 cm. Find:

- (a) Image height
- (b) Magnification

SECTION – C : Chart Work

Q.23 Make a colourful chart showing all cases of image formation by:

- (a) Concave mirror
- (b) Convex mirror

Include:

1. Position of object
2. Position of image
3. Nature of image
4. Size of image
5. Ray diagrams for each case

Use proper labeling and neat presentation.

“Wishing you all a very happy summer vacation also we encourage you to approach the syllabus of Ut-1 enthusiasm and dedication, impressing each opportunity for discovery and development.”

Thank you