



The Asian School,  
Dehradun

# SUMMER VACATION

Fun • Learn • Explore • Grow

This summer, I will...



Explore new things



Read exciting books



Be creative



Stay active & healthy



Be kind & happy

It's time to

**RELAX,**

**+ RECHARGE &**

**HAVE FUN!**

Wishing you a safe, happy and enjoyable summer vacation!





**Dear Parents,**

**Greetings from The Asian School!**

Summer vacation is a much-awaited time for children to unwind, explore new experiences, and spend valuable moments with family and friends. It provides students with the opportunity to relax their minds, pursue hobbies, develop creativity, and return to school refreshed and energized for the new academic journey ahead.

At the same time, vacations also offer an ideal opportunity to strengthen learning in a joyful and meaningful way. Keeping this in mind, thoughtfully planned Holiday Homework has been assigned to encourage students to remain engaged with their studies while enjoying their break. These activities are designed to enhance creativity, critical thinking, independent learning, and time-management skills.

To ensure that our students enjoy a healthy balance of learning and recreation, **the Summer Vacation will commence from 24<sup>th</sup> May 2026 and classes will resume on 13<sup>th</sup> July 2026.**

Parents are requested to encourage and guide their children in completing the assigned work regularly and neatly. Your support in creating a positive and disciplined learning environment at home plays an important role in nurturing confidence, responsibility, and self-motivation among children.

We firmly believe that vacations should be a blend of relaxation, exploration, and productive engagement. The Holiday Homework has therefore been planned to make learning enjoyable, enriching, and stress-free for every child.

We wish all our students and parents a happy, safe, and memorable Summer Vacation filled with learning, laughter, and wonderful experiences!

**Regards,**

**The Asian School**

# SUMMER HOLIDAY HOMEWORK



## ENGLISH :

### I. ENGLISH ENRICHMENT ACTIVITIES

#### A. Book Review & Character Reflection

Read any one novel or storybook from the list given below:

- Charlie and the Chocolate Factory – Roald Dahl
- The Blue Umbrella – Ruskin Bond
- Wonder – R. J. Palacio
- The Jungle Book – Rudyard Kipling
- Harry Potter and the Philosopher’s Stone – J. K. Rowling

**After reading the book, write:**

- Title of the book and name of the author
- A short summary of the story
- Your favourite character and the qualities you admire in him/her
- How the character is related to real life or reminds you of someone around you
- One important lesson you learned from the story
- Your favourite part of the book
- If you were in the place of the main character, what would you have done differently and why?

**Word Limit: 200–250 words.**

#### B. Holiday Diary Writing Activity:

##### I. Holiday Diary – “My First Seven Days of Summer Vacation”

Write a diary entry for the first seven days of your summer holidays. Describe how you spent each day and mention the activities you enjoyed during the vacations.

You may include:

- Places you visited
- Games or activities you played
- Time spent with family and friends
- New things you learned or tried
- Special moments that made you happy
- Acts of kindness or helpful work you did
- Things you felt grateful or thankful for each day

Students should express their thoughts, feelings, and experiences honestly and creatively.

### Instructions for Diary Writing:

- Write one diary entry for each day
- Mention the date and day properly
- Use neat handwriting and proper format
- Add small drawings or pictures if you wish
- Word Limit: 60–80 words for each day's entry

## II. VOCABULARY

- **Homophones**

BBC Module–7, CA–117, Page No. 451

- **One-word Substitution**

BBC Module–7, CA–119, Page No. 461

## III. CREATIVE WRITING

- **Story Writing**

Write a story on the topic: **"The Day the Internet Disappeared"**. Describe how people reacted and what you learned from that experience.

### Instructions:

- All English writing work must be completed neatly in the Scrap Book.
- All vocabulary-based work must be done in the English Language Notebook.
- Maintain neat handwriting and proper presentation.

## MATHEMATICS :

### A. Research Based Project Work: "The Global Chronicles of Numbers"

**Theme:** A Comparative Study of Ancient Place Value Systems.

Taking the help of NCERT textbook Ganita Prakash **Chapter 3 - A story of numbers**, create a research file with one chapter dedicated to each of the following civilizations. For each, you must illustrate their **symbols for 1–10** and explain their **Place Value** logic.

#### 1. Mesopotamian (The Base-60 Pioneers)

- **System:** Sexagesimal (Base-60).
- **The Logic:** They used a "positional" system but lacked a true zero for a long time.
- **Modern Legacy:** Research why we still use their system for measuring time (60 seconds/minutes) and angles (360 degrees).
- **Represent the following numbers in the Mesopotamian System:**

i) 63

ii) 132

iii) 200

iv) 60

v) 3605

## 2. The Mayans (The Base-20 Astronomers)

- **System:** Vigesimal (Base-20).
- **The Logic:** They wrote numbers **vertically** instead of horizontally!
- **Contribution:** They were one of the first to use a shell-like symbol for **Zero**.

## 3. Ancient China (The Rod Calculus)

- **System:** Decimal (Base-10) using counting rods.
- **The Logic:** They used "Rod Numerals" and left an empty space for zero.  
E.g. 205 is written as II III  
2026 is written as = =T
- **Visual Task:** Draw the vertical and horizontal rod patterns used for units and tens.
- **Write your year of birth using the ancient Chinese system.**

## 4. Indian Civilization (The Foundation)

- **System:** Decimal (Base-10) with a **True Zero**.
- **The Logic:** Transition from Brahmi numerals to the decimal place-value system.
- **Write a Short Story: 'The Adventures of Zero'** — Write a **creative story (250–350 words)** from the perspective of the number **Zero** — the greatest invention in the history of mathematics!
  - Zero was invented in ancient India — make your story reflect this pride.
  - Include how life was difficult without Zero (no place value system!).
  - Show how Zero changed counting, trading, astronomy, and computers.
  - End with why Zero thinks it is the most powerful number of all. Draw and colour to represent ZERO as a powerful character (any historical character or any powerful cartoon character) using your imagination and creativity.

\*Use your creativity to make your project report interesting and informative by using pictures/ drawings/ cut outs / print outs of the data collected during research.

\*Prepare a questionnaire/ worksheet based on your project work (along with answers) containing at least five questions.

\* Reference: (i) NCERT TEXTBOOK GANITA PRAKASH ( ii) YOUTUBE VIDEO LINK  :

[https://youtu.be/e5dC72LkDEA?si=D\\_QTnmFeFtalB\\_Vr](https://youtu.be/e5dC72LkDEA?si=D_QTnmFeFtalB_Vr)

**B. WORKSHEET: Solve the holiday homework worksheet based on the chapters: A square and a cube, Power Play.**

**Instructions:** • Holiday homework has to be done in the Mathematics Practice Register.

- Write a project report in neat and legible handwriting.
- Paste a print out of the worksheet and solve in detail.

**HINDI :**

1. टीवी पर दिखाए जाने वाले किसी एक विज्ञापन को चुनिए । सोचिये - क्या वह सच में उतना ही सही है जितना दिखाया जाता है । अपने विचार लिखिए । विज्ञापन से सम्बंधित चित्र भी लगाइए।

2. मुंशी प्रेमचंद की निम्नलिखित कहानियों में से कोई एक कहानी पढ़िए तथा सम्बंधित प्रश्नों के उत्तर दीजिए--

- दो बैलों की कथा
- नमक का दरोगा

- पूस की रात
- क्या कहानी वास्तविक जीवन से जुड़ी हुई लगी, कैसे ?
- कहानी समाज को क्या सन्देश देती है ?
- यदि आप लेखक होते तो इस कहानी में क्या बदलाव करते ?
- आपको पुस्तक का सबसे अच्छा भाग कौन-सा लगा और क्यों ?
- एक A3 शीट पर घटनाक्रम के चित्रों के माध्यम से कहानी का सारांश प्रस्तुत कीजिए ।

3. एक दिन के लिए बिना मोबाइल के रहने का अनुभव लिखिए । आपको क्या कठिन लगा और क्या अच्छा लगा ? और क्यों ?

### निर्देश -

- कार्य साफ़-सुथरी लिखावट में करें ।
- रंगों एवं चित्रों का प्रयोग करें ।
- प्रत्येक कार्य में मौलिकता होनी चाहिए ।
- समस्त कार्य प्रोजेक्ट फाइल में करें ।

### SCIENCE :

#### A. Organic Liquid Fertilizer Activity (Compulsory) :

Aim: To prepare a natural fertilizer using kitchen waste.

#### Materials Required:

- Vegetable peels
- Fruit peels
- Plastic bottle/container
- Water
- Lid

#### Procedure:

1. Collect vegetable and fruit peels daily.
2. Put them into a container.
3. Add water until the waste is fully submerged.
4. Close the lid loosely.
5. Keep the container in a shaded place for 3–4 weeks.
6. Stir the mixture every 2–3 days.
7. After one month, filter the liquid carefully.
8. Dilute the liquid fertilizer with water before using it on plants.

#### Observation:

Record changes in smell, colour and plant growth.

#### B. Research & Application Task :

Prepare a 2–3 page report on any ONE topic:

- AI in Science
- Renewable Sources of Energy
- Human Impact on Environment

Include:

- Pictures
- Real-life examples.
- Advantages & disadvantages
- Your suggestions

## **SOCIAL SCIENCE:**

### **Topic - Factors of Production**

#### **Activity 1. — Written Assignment**

“Define & Illustrate”

In your notebook, write the definition of each factor of production — Land, Labour, Capital, and Entrepreneurship — in your own words. Next to each definition, draw a small sketch that represents it.

Example: For Capital, draw a sewing machine or a tractor.

#### **Activity 2: India vs USA – Natural Wealth Comparison**

Make a project file with 4-5 pages on: **“Comparison of Natural Wealth: India and USA”**

##### **Include these points:**

Cover Page: Title, Name, Class, Roll No.

**Page 1** - Introduction: What is natural wealth? Why is it important?

**Page 2** - India’s Natural Wealth: Write 5 points about forests, minerals, rivers, soil, and solar energy in India. Draw/paste pictures.

**Page 3** - USA’s Natural Wealth: Write 5 points about forests, minerals, rivers, petroleum, and farmland in USA. Draw/paste pictures.

**Page 4** - Comparison Table: Make a table like this:

- Natural Resource | India | USA
- Land Area | 3.28 million sq km | 9.83 million sq km
- Main Minerals | Iron, coal, mica | Gold, coal, petroleum
- Forests | Teak, sal | Pine, oak

**Page 5** - Conclusion: Which country is richer in which resource? What can India learn from USA? Use different colours for each category and add a legend.

## **COMPUTER SCIENCE :**

### **Topic: “How Artificial Intelligence Helps Us in Daily Life”**

Students are required to prepare a PowerPoint Presentation (PPT) on the above-mentioned topic. The presentation should include examples of how Artificial Intelligence (AI) is used in our daily life such as:

- Voice assistants (Alexa, Siri, Google Assistant)
- Smart phones and face recognition
- Online shopping recommendations
- Google Maps and navigation
- Chatbots and virtual assistants
- AI in education, hospitals, and banking

##### **Instructions:**

- Prepare a presentation of 8 slides maximum.
- Add suitable pictures, animations, and headings.
- Use simple language and short points.
- Make the presentation colourful and creative.
- Students may also draw related pictures or diagrams to enhance the project.

- Send the presentation (PPT) on the following mail ID: [asianschooldata@gmail.com](mailto:asianschooldata@gmail.com)
- In the Mail Subject please mention student name, class and section.

**SUPW :**

**Activity: 3D Clay Art on Canvas:**

Students are required to create a beautiful 3D Clay Art on Canvas using *Mould It Clay* and acrylic colours. The artwork should be creative, colourful, and neatly finished. Students may take inspiration from the given reference video and create their own design with imagination and artistic skills. Clay art on canvas is a wonderful way to explore texture, creativity, and mixed-media art techniques.

Material Required:

- Canvas Size – 12 × 16 inches
- Mould It Clay
- Acrylic Colours
- Brushes (Flat and Round)
- Fabric Glue

**Reference Video:**

[https://youtube.com/shorts/gCoSgt2oKdI?si=97\\_8H\\_A0Tvq0lyTO](https://youtube.com/shorts/gCoSgt2oKdI?si=97_8H_A0Tvq0lyTO)

**Instructions:**

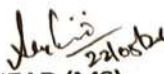
- Create a neat and attractive 3D artwork on the canvas.
- Use clay carefully to make raised designs and textures.
- Paint the artwork beautifully using acrylic colours after the clay dries properly.
- Students may create themes such as nature, village scenery, floral art, abstract art, traditional art, or any creative design of their choice.
- The artwork should be original and creative.
- Handle materials carefully and maintain cleanliness while working.

**SUMMER VACATION HOLIDAY HOMEWORK INSTRUCTIONS**

- ❖ Submission of Holiday Homework is compulsory and will be considered for assessment. **Date of submission: 13 July 2026.**
- ❖ Students must complete the written work of all subjects as instructed by their respective subject teachers.
- ❖ All work should be done neatly, systematically, and with proper presentation.
- ❖ Assessment will be based on accuracy, creativity, handwriting, neatness, and timely submission.
- ❖ Students are encouraged to develop reading habits and revise important concepts learned during the session.
- ❖ Carefully read and follow the instructions given for each activity and worksheet before attempting them.
- ❖ Holiday Homework is an integral part of Subject Enrichment and skill development activities.

**“Learn with Joy. Explore with Curiosity. Return with Confidence.”**

  
COORDINATOR (MS)

  
HEAD (MS)

  
PRINCIPAL  
22/5/26



# HALF YEARLY SYLLABUS



**Learn**  
with curiosity



**Aim**  
for excellence



**Work**  
with discipline



**Grow**  
with values



**Shine**  
with confidence

## A MESSAGE TO OUR CHILDREN

- ★ Believe in yourself.
- ★ Stay focused and give your best.
- ★ Be curious, ask questions and keep learning.
- ★ Manage your time well.
- ★ Challenges help you grow.
- ★ Remember, every small step today leads to a big success tomorrow.

*You can do it!*

## A MESSAGE TO OUR PARENTS

- ✔ Your encouragement builds your child's confidence.
- ✔ A calm and positive environment nurtures better learning.
- ✔ Support their routine, time management and healthy habits.
- ✔ Celebrate their effort, not just the results.
- ✔ Together, let's help our children learn, grow and succeed.

*Thank you for being our partners in progress!*

**LEARN TODAY  
LEAD TOMORROW**



**THE ASIAN SCHOOL, DEHRADUN**

**Half Yearly Syllabus for 2026-27**

**Class - VIII**

SUBJECT	SYLLABUS
ENGLISH	<p>A] Literature:- L – 1 A Tale of Valour: Major Somanth Sharma and the Battle of Badgam Poem – Somebody’s Mother L -2 Verghese Kurien – I Too had a Dream Poem – The magic Brush of Dreams L – 2 Spectacular Wonders L – 1 The Cherry Tree</p> <p>B] Language :- Subject-verb agreement, Prepositions, Voice (statements, interrogatives, imperatives), Idioms and phrases, Comprehension Passage</p> <p>C]Writing :- Letter to the editor, Story writing with outlines.</p>
HINDI	<p>पाठ-1 स्वदेश पाठ-2 दो गौरैया पाठ-3 एक आशीर्वाद पाठ-4 हरिद्वार पाठ-5 कबीर के दोहे</p> <p>भारत की खोज - सिंधु घाटी की सभ्यता</p> <p>व्याकरण - संज्ञा,समास, विशेषण, अपठित गद्यांश,अपठित पद्यांश, औपचारिक व अनौपचारिक पत्र लेखन अनुच्छेद लेखन, शब्द-भण्डार- विलोम शब्द (1 से 15), पर्यायवाची शब्द (1 से 15), अनेक शब्दों के लिये एक शब्द (1 से 15), मुहावरे (1से 15)</p>
MATHEMATICS	<p>Ch-1 A square and a cube Ch-2 Power Play Ch- 4 Quadrilaterals Ch-5 Number Play Ch-6 We distribute, yet things multiply Ch-7 Proportional Reasoning -1</p>
SCIENCE	<p>Ch-4 Electricity: Magnetic and Heating Effects Ch-6 Pressure, Winds, Storms, and Cyclones Ch-9 The Amazing World of Solutes, Solvents, and Solutions Ch-13 Our Home: Earth, a Unique Life Sustaining Planet</p>
SOCIAL SCIENCE	<p>Ch-3 The Rise of the Marathas Ch-4 The Colonial Era in India Ch-5 Universal Franchise and India’s Electoral System Ch-6 The Parliamentary System: Legislature and Executive</p>

COMPUTER	Ch-1 Networking Concepts Ch-6 Loops Coding in Python Ch-8 Web Development : Lists and Tables
FRENCH	UNIT-3 LE MONDE MULTICULTUREL UNIT-4 LA BONNE NORRITURE
SANSKRIT	पाठ: 1- संगच्छध्वं संवदध्वं पाठ: 4- प्रणम्यो देशभक्तोऽयं गोपबन्धुर्महामनाः पाठ: 5- गीता सुगीता कर्तव्या  व्याकरण: अपठित गद्यांश, पत्र लेखन, कहानी लेखन, शब्द रूप - अस्मद् (सर्वनाम), धातु रूप - इष धातु (लट्, लृट्, लङ्, लकार), ऋतुओं के नाम - 10, पशुओं के नाम - 10, संख्या (51-60), अनाज के नाम (10)
PUNJABI	Ch-4 GURUTA KHICH DI KAHANI Ch-5 BHIKARAN Ch-6 APP NAA MARIYE SWARAG NAA JAIYE Ch-7 JAWAN DAA KAMAAL  LANGUAGE : ESSAY, LETTER, COMPREHENSION, CHANGE THE NUMBER, OPPOSITE WORDS, CHANGE THE GENDER, MCQS, MAKE SENTENCES, DEFINATION OF PRONOUN AND KIRIYA AND IDIOMS OR ONE WORD FOR MANY WORDS

*Sudhanshu Aggarwal*  
16/05/26  
HEAD MASTER

*18*  
PRINCIPAL  
25/5/26



## HOLIDAY HOMEWORK SUMMER VACATION

### CLASS 8 - MATHEMATICS

Chapters: A Square and a Cube | Power Play

#### SECTION – A Multiple Choice Questions

Choose the correct option:

- Which of the following digits cannot be at the one's place of a perfect square?  
(a) 2 (b) 4 (c) 6 (d) 9
- Which of the following is not a perfect square?  
(a) 441 (b) 576 (c) 700 (d) 625
- The sum of the first 20 odd numbers is.....  
(a) 100 (b) 400 (c) 600 (d) 800
- How many whole numbers lie between consecutive perfect squares  $75^2$  and  $76^2$ ?  
(a) 75 (b) 76 (c) 150 (d) 151
- A perfect square ends with digit 9. What can be the possible digits at one's place of its square root?  
(a) 2 or 8 (b) 4 or 6 (c) 1 or 9 (d) 3 or 7
- The value of  $(-8/5)^{-2}$  is.....  
(a)  $64/25$  (b)  $25/64$  (c)  $-25/64$  (d)  $-64/25$
- Which of the following is equal to  $501^2 - 500^2$ ?  
(a) 999 (b) 1000 (c) 1001 (d) 1002
- $(5/6)^{-3}$  is the same as.....  
(a)  $(6/5)^3$  (b)  $(5/6)^3$  (c)  $(-5/6)^3$  (d)  $(-6/5)^3$
- The square of  $-5$  is ..... and the cube of  $-5$  is.....  
(a) 25,  $-125$  (b)  $-25$ ,  $-125$  (c) 25, 125 (d)  $-25$ , 125
- Which of the following perfect cubes is also a perfect square?  
(a) 125 (b) 216 (c) 64 (d) 343
- The standard form of 0.000000072 is.....



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(a)  $7.2 \times 10^{-8}$  (b)  $72 \times 10^{-9}$  (c)  $7.2 \times 10^{-7}$  (d)  $72 \times 10^{-8}$

12. The scientific notation for 5,60,00,000 is.....

(a)  $5.6 \times 10^7$  (b)  $56 \times 10^6$  (c)  $5.6 \times 10^6$  (d) Both a and b

13. The value of  $7^0 + 3^0 + 2^0$  is.....

(a) 0 (b) 1 (c) 3 (d) 10

14. Which of the following numbers is a perfect cube?

(a) 1000 (b) 225 (c) 144 (d) 200

15. The usual form of  $3.06 \times 10^6$  is.....

(a) 306000 (b) 3060000 (c) 30600 (d) 0.00000306

16. The smallest number by which 128 must be divided to make it a perfect cube is.....

(a) 2 (b) 4 (c) 8 (d) 16

17. A perfect square ends with digit 1. The possible digits at one's place of the square root are.....

(a) 1 only (b) 9 only (c) 1 or 9 (d) 3 or 7

18. Which of the following perfect squares is also a perfect cube?

(a) 36 (b) 100 (c) 729 (d) 225

19. The cube root of  $-729$  is.....

(a)  $-9$  (b) 9 (c)  $-27$  (d) 27

20. If  $2^x = 64$ , then  $x$  is.....

(a) 4 (b) 5 (c) 6 (d) 7

## SECTION – B ( Subjective Questions )

21. If  $13^2 = 169$ , find the value of: (a)  $(1.3)^2$  (b)  $(0.13)^2$  (c)  $(130)^2$

22. Find the least square number exactly divisible by 4, 6 and 10.

23. Using  $112^2 = 12544$ , find the value of  $113^2$ .

24. A square garden has an area of  $3136 \text{ m}^2$ . Find the length of each side of the garden.



25. Express 0.0000529 in standard form.
26. Simplify:  $(3^2)^3 \times (2^3)^2$
27. Find the cube root of 13824 by prime factorisation.
28. Simplify for x:  $2^{4x+1} \div 4 = 2^{-5}$
29. Find the number of digits in the square root of 2116 without actual calculation.
30. The volume of a cube is  $10648 \text{ cm}^3$ . Find its side length.
31. Find the square root of 7056 by prime factorisation method.
32. By what smallest number must 2028 be multiplied to make it a perfect square? Find the product.
33. Evaluate  $36^3 - 35^3$  using properties of cubes.
34. Evaluate: (a)  $3^{-5} \times 3^{-3}$  (b)  $(7^{-2} \div 7^{-5})$
35. Find the square root of 151.29 by long division method.
36. By what smallest number must 13500 be divided to make it a perfect cube? Also find the cube root.
37. Evaluate:  $51^3 - 50^3$  using the identity  $(a^3 - b^3) = (a - b)(a^2 + ab + b^2)$  or by using the properties of cubes.
38. Simplify:  $[(2/3)^{-2} \times (4/5)^{-3}] \div (3/2)^2$
39. Find the square root of 6084 by long division method.
40. Express in usual form: (a)  $6.37 \times 10^{-5}$  (b)  $4.2 \times 10^8$
41. a) Find the cube root of 54872.  
b) Find the square root of 1383.84.
42. By what smallest number must 5292 be multiplied so that the product is a perfect square? Find the product and its square root.
43. Evaluate  $101^3 - 100^3$  using the identity  $(a^3 - b^3) = (a - b)(a^2 + ab + b^2)$  or by using properties of cubes.
44. Evaluate: (a)  $[(5^{-4} \div 5^{-7}) \times 5^3]$  (b)  $[(-1/2)^{-2} \times (2/3)^{-3}]$



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45. Using  $75^2 = 5625$ , find the value of  $76^2$  and  $74^2$ .

46. Find the square root of 1471369 by long division method. Also verify your answer.

47. By what smallest number must 24300 be divided to make it a perfect cube? Find the cube root of the result.

48. Simplify:  $[(3/2)^{-4} \times (3/2)^6] \div [(2/3)^{-2} \times (2/3)^4]$

49. Read the following text carefully and answer the questions that follow:

A colony of bacteria doubles every hour. A lab starts with 25 bacteria.

- (i) Write the number of bacteria after 3 hours in exponential form.
- (ii) After how many hours will there be 800 bacteria?
- (iii) Calculate the bacteria count after 6 hours. Show your steps.
- (iv) Explain the difference between doubling the count 5 times and adding 25 bacteria 5 times.

50. Read the following text carefully and answer the questions that follow:

A square plot of land has an area of  $15129 \text{ m}^2$ . The owner wants to fence it and also divide it into 1  $\text{m}^2$  plots.

- (i) Find the side of the large square plot.
- (ii) If the side is increased by 10%, what is the new area?
- (iii) How many  $1 \text{ m}^2$  plots can be made from the original square plot?
- (iv) If the side of the plot is used as the edge of a cube, find the volume and express it in standard form.