

OUR INDIA INTERNATIONAL SCHOOL

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SUMMER VACATION HOMEWORK

Grade VIII

Dear Students,

Summer vacation is a time to relax, enjoy, and also learn new things in a fun way. Your holiday homework has been designed to improve your creativity, thinking skills, handwriting, reading habits, and subject knowledge.

Please follow these instructions carefully while completing your work:

General Instructions

1. Complete all the work neatly and sincerely.
2. Maintain separate notebooks/files wherever instructed.
3. Write in clear and legible handwriting.
4. Use colours, charts, and pictures to make your work attractive.
5. Complete the work on your own. Take guidance from parents only when needed.
6. Submit all homework on time after the vacation.
7. Read instructions carefully before starting each activity.
8. Keep your notebooks clean and well-covered.
9. Practice reading and writing daily to improve your language skills.
10. Revise the chapters regularly for oral and written assessments.

Special Note for Students

- Spend some time every day reading books and newspapers.
- Help your parents at home and learn good habits.
- Drink plenty of water and stay healthy.
- Enjoy your holidays while learning something new every day.

Parents' Cooperation

Dear Parents,

Kindly encourage your child to complete the holiday homework independently. Your support and guidance will help them develop confidence, responsibility, and creativity.

SCIENCE

- Use an A4 notebook or scrapbook.
- Write neatly with proper headings.
- Draw labelled diagrams wherever required.
- Complete work independently.
- Decorate your project creatively.
- Submit after summer vacation.

Science Journal

Observe any 5 daily life scientific activities and explain the science behind them.

Chapter Activities

Prepare charts, diagrams, projects, and experiments related to electricity, forces, microorganisms, light, matter, and environment.

Fun Tasks

Prepare 20 MCQs and write about one famous scientist.

Holiday Challenge

Create a useful item from waste materials.

HINDI

ग्रीष्मकालीन अवकाश गृह कार्य

5 पृष्ठ सुलेख (pages Writing)

10 विलोम शब्द लिखिए।

10 पर्यायवाची लिखिए।

मल्हार पाठ 1 से 5 तक सस्वर वाचन कीजिए।

व्याकरण पाठ 1 - 2 तथा याद कीजिए।

ENGLISH

1. Learn 10 difficult words from each chapter (Chapter 1, 2, and 3) and write their meanings. Also make meaningful sentences using those words.
2. Read any one English novel or storybook during the holidays and write a brief summary along with your favourite character.
3. Make a chart paper on any one of the following topics:
 - Direct and Indirect Speech
 - Active and Passive Voice
 - Types of Clauses
 - Figures of Speech
4. Write one page of English handwriting daily to improve neatness and presentation.
5. Do Worksheet 1 to 5 in your Grammar book neatly.
6. Revise all the chapters and grammar topics completed in class.
7. Learn and revise:
 - Tenses
 - Modals
 - Subject-Verb Agreement
 - Reported Speech
8. Write essays/paragraphs on the following topics:
 - Importance of Education
 - My Aim in Life
 - Save Water
 - A Visit to a Historical Place
 - How I Spent My Summer Vacation

Note: Students are required to maintain a separate small English notebook for completing the holiday homework.

Urdu

مترادف اور 15 متضاد الفاظ لکھیے۔ 15

پانی کی اہمیت پر مضمون لکھیے۔“

نقل لکھیں۔ (page) روزانہ ایک پیج

املا لکھیں۔ (page) گھر والوں کی مدد سے روزانہ ایک پیج

S.ST

Students are instructed to complete the following assignments neatly in their notebooks.

Use charts, diagrams, and pictures wherever required.

Subject	Assignment
History	Prepare a chart on Natural Resources and Their Uses. Write about different types of resources and ways to conserve them.
Civics	Write a short note on Adult Franchise and explain the importance of voting rights in a democracy.
Economics	Explain the factors of production – Land, Labour, Capital, and Human Capital with examples. Also write short notes on technology in production and online learning platforms like MOOCs and SWAYAM.
Geography	Draw and label important natural resources found in India and write their uses.

Note: Complete all assignments neatly and submit after the holidays.

MATHEMATICS

CUBES AND CUBE ROOTS

- Find the one's digit of the cube of each of the following numbers.
(i) 3331 (ii) 8888 (iii) 149 (iv) 1005 (v) 1024 (vi) 77 (vii) 5022 (viii) 53
- Express the following numbers as the sum of odd numbers using the pattern?
(a) 6^3 (b) 8^3 (c) 7^3
- Which of the following are perfect cubes?
1. 400 2. 3375 3. 8000 4. 15625 5. 9000 6. 6859
- Is 392 a perfect cube? If not, find the smallest natural number by which 392 must be multiplied so that the product is a perfect cube.
- Is 53240 a perfect cube? If not, then by which smallest natural number should 53240 be divided so that the quotient is a perfect cube?
- Is 1188 a perfect cube? If not, by which smallest natural number should 1188 be divided so that the quotient is a perfect cube?
- Is 68600 a perfect cube? If not, find the smallest number by which 68600 must be multiplied to get a perfect cube.
- Check which of the following are perfect cubes.
(i) 2700 (ii) 16000 (iii) 64000 (iv) 900 (v) 125000 (vi) 36000 (vii) 21600 (viii) 10,000
- Find the smallest number by which 256 must be multiplied to obtain a perfect cube.
- Find the smallest number by which 192 must be divided to obtain a perfect cube.
- Parikshit makes a cuboid of plasticine of sides 5 cm, 2 cm, 5 cm. How many such cuboids will he need to form a cube?
- Find the cube root of 8000.
- Find the cube root of 13824 by prime factorisation method.
- Find the cube root of 17576 through estimation.
- You are told that 1,331 is a perfect cube. Can you guess without factorisation what is its cube root? Similarly, guess the cube roots of 4913, 12167, 32768.
- Find the cube root of each of the following numbers by prime factorisation method.
(i) 64 (ii) 512 (iii) 10648 (iv) 27000 (v) 15625 (vi) 13824
(vii) 110592 (viii) 46656 (ix) 175616 (x) 91125
- Evaluate: $\sqrt[3]{\frac{216}{2197}}$.
- Evaluate: $\sqrt[3]{\frac{-125}{512}}$.
- Evaluate: $\sqrt[3]{\frac{-1728}{2744}}$.
- Evaluate: $\sqrt[3]{64 \times 729}$.

SQUARES AND SQUARE ROOTS

1. Which are the digits the square number can have at units place?
2. How many 2's are there in the prime factors of 300?
3. How many 5's are there in the prime factors of 13000?
4. How many digits will be there in the square root of 12321?
5. How much is $45^2 - 44^2$?
6. Find the value of $(39 + 21)^2$.
7. What is the missing digit in $(37)^2 = 136 - ?$
8. Find the value of $121^2 - 120^2$.
9. Simplify and give the answer : $\sqrt{62 \times 28}$.
10. How many natural nos lie between 562 and 572.
11. What is the square of $\frac{19}{20}$
12. Find the square of (3.1).
13. How much is $(0.1)^2$?
14. Find the value of $\sqrt{0.0081}$.
15. Give the square number between 36 and 64.
16. How many square numbers lie between 81 and 225?
17. Find the least number which when added to 599 to make it a perfect square.
18. In a cinema hall 729 people are seated in such a way that the number of people in a row is equal to number of rows. Then how many rows of people are there in the hall?
19. The length of a rectangular park is 80m and breadth is 60m. Find the length of its diagonal.
20. Give one Pythagorean triplet in which one of the number is 12.

EXPONENTS AND POWERS

1. Express:
 - (i) 729 as a power of 3
 - (ii) 128 as a power of 2
 - (iii) 343 as a power of 7
 - (iv) 256 as a power 2.
2. Which one is greater 2^3 or 3^2 ?
3. Which one is greater 8^2 or 2^8 ?
4. Express the following numbers as a product of powers of prime factors:
 - (i) 72 (ii) 432 (iii) 1000 (iv) 16000
5. Express each of the following numbers using exponential notation:
 - (i) 512 (ii) 343 (iii) 729 (iv) 3125
6. Simplify:
 - (i) $(-4)^3$ (ii) $(-3) \times (-2)^3$ (iii) $(-3)^2 \times (-5)^2$ (iv) $(-2)^3 \times (-10)^3$
7. Compare the following numbers:
 - (i) 2.7×10^{12} ; 1.5×10^8 (ii) 4×10^{14} ; 3×10^{17}
8. Simplify and write in exponential form:
 - (i) $2^5 \times 2^3$
 - (ii) $p^3 \times p^2$
 - (iii) $4^3 \times 4^2$
 - (iv) $a^3 \times a^2 \times a^7$
 - (v) $5^3 \times 5^7 \times 5^{12}$
 - (vi) $(-4)^{100} \times (-4)^{20}$
9. Simplify and write in exponential form:
 - (i) $2^9 \div 2^3$
 - (ii) $10^8 \div 10^4$
 - (iii) $9^{11} \div 9^7$
 - (iv) $20^{15} \div 20^{13}$
 - (v) $7^{13} \div 7^{10}$
10. Express the following terms in the exponential form:
 - (i) $(2 \times 3)^5$ (ii) $(2a)^4$ (iii) $(-4m)^3$

COMPUTER SCIENCE

S.No.	Chapter's Name	Activities
1	Stages of AI Project Cycle	Reading chapter, MCQ, fill in the blanks, Answer the following questions.
2	AI Ethics	Reading the Chapter, MCQ, Answer the following questions.
3	AI AT A Glance	Reading Chapter, MCQ, Answer the following questions