



GRD WORLD SCHOOL, BHAIWALA, DEHRADUN

SUMMER VACATION HOLIDAY'S HOME WORK- 2025-26

CLASS – XI SCIENCE

S. No	Subjects	Topics
1	English	1 Write a short note on 'Human life is short-lived in contrast to nature' (A Photograph) 2 Identifying and explaining the use of literary devices in the poem 'A Photograph'
2	Biology	1) 3D models (Mitosis and Meiosis) 2) Morphology of Flowering Plants (Root, Leaf, Inflorescence and Flower) 3) Solve NCERT back exercise Questions.
3	Physics	1) Solve NCERT back exercise Questions of chapters 1 and 2 2) Solve the worksheets provided
4	Chemistry	The worksheet /(s) provided in the group
5	Maths	-----
6	Marketing	-----
7	Physical Education	-----
8	Computer Science	Complete the given worksheet.



GRD World School, Bhauwala, Dehradun
Holiday Homework: Number System
Class: XI Science
Subject: Computer Science

Part 1: Theory

1. Define the following number systems with examples:

Binary

Octal

Decimal

Hexadecimal

2. Explain the importance of number systems in computer science.
3. What is the base (radix) of each number system?
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Part 2: Number System Conversions

Perform the following conversions **step-by-step** and show your work:

Task	Number
1. Convert decimal 156 to binary	156
2. Convert binary 110101 to decimal	110101
3. Convert octal 237 to decimal	$(237)_8$
4. Convert hexadecimal 3F to decimal	$(3F)_{16}$
5. Convert decimal 255 to hexadecimal	255
6. Convert binary 101011 to hexadecimal	101011
7. Convert hexadecimal 7A to binary	$(7A)_{16}$
8. Convert decimal 100 to octal	100

Part 3: Bonus

1. Convert binary number 1101101 to octal and hexadecimal.
2. Explain why hexadecimal numbers are often used in programming and computer science instead of binary.
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Submission

- Write answers clearly with steps.
- Use a notebook or type and print.
- Submit before the first class after holidays.