



DRONACHARYA
SR. SEC. SCHOOL MUBARIKPUR (JH)
AFFILIATED TO CBSE NEW DELHI, Aff No. 530945 |

Summer Holidays Homework

Class: - XI (Non Medical)

Dear Students,

As the summer sun rises higher and the days stretch longer, it's time to pause, reflect, and recharge. The months of May and June bring with them not just warmth, but also the perfect opportunity to reconnect—with ourselves, with our families, and with the world around us.

Let us remember: "A mind stretched by new experiences can never go back to its old dimensions." This summer, let curiosity lead you, compassion guide you, and creativity energize you.

As part of the Summer Holiday Engagement 2025, we encourage you to stay indoors during peak hours, remain hydrated, and take thoughtful care of the ecology and environment around you. Even small steps—like reducing plastic use, saving electricity, and caring for plants—can bring meaningful change.

This year's holiday homework is designed to nurture Social, Emotional, and Experiential Learning. Whether you're experimenting in the kitchen, helping out at home, writing in your journal, or diving into a book—know that each activity contributes to your growth.

Let this summer be more than just a break. Let it be a season of purposeful rest, joyful discovery, and mindful action.

I believe in your potential to make a difference and look forward to seeing your spirit shine through in every page of your work.

Stay safe, stay curious, and above all—stay kind.

Warm wishes,

Class Teacher

GENERAL INSTRUCTIONS

- Complete your homework in the given time period.
- Make a separate single notebook for all subjects.

English	I. Research and Reports (Reading and Writing) (Research and prepare a report on either of the 2 topics given below) 1. Research and Report on Khushwant Singh and His Father's Role in Building Delhi - As budding reporters for "The Hindu," dive into the life and contributions of Khushwant Singh. Conduct thorough research and prepare a detailed report highlighting his achievements and struggles. Include interesting anecdotes and examples. Also, explore his father's role in building Delhi. Your report should be a minimum of 300 words. 2. Research and Report on King Tut (chapter 3) - The world has always been fascinated by the mysterious life and death of King Tutankhamun, the young pharaoh of ancient Egypt. As reporters for "The Hindu," it's your responsibility to unveil the secrets behind this historical figure. Conduct in-depth research on King Tut and prepare a comprehensive report covering his life, tomb discovery, and the significance of his reign. Provide a vivid description of the treasures found in his tomb and their historical importance. Your report should be a minimum of 300 words. II. Daily Newspaper Reading and Vocabulary Building (Reading) - Read the newspaper daily and actively engage with various news reports on diverse topics. Cut out news articles that interest you and write down five new vocabulary words from each article. Look up their definitions and create sentences to demonstrate your understanding. This will help enhance your vocabulary and keep you updated on current affairs. III. Reflective/Creative Writing and Debate Preparation (Writing and Speaking) 1. Imagine you are Mrs. Dorling. After the narrator leaves without confronting you, you feel the need to explain your actions and thoughts. Write a letter to the narrator apologizing and explaining your behaviour. (Snapshots - "The Address") (Writing) 2. Debate Preparation: "Traditions vs Family Values" (Speaking) - Prepare arguments both in favor of and against the prioritization of traditions over family values, or vice versa, using examples and insights from Khushwant Singh's story and other relevant sources. Research the significance of traditions and family values within different cultures and societies, including those depicted in Khushwant Singh's works. Consider how traditions and family values may complement or conflict with each other in the context of the novel. Develop persuasive arguments supported by evidence to present during the debate. IV. Chapter Summaries (Reading and Writing) Reading and Summary (Reading and Writing) Please read these two chapters from the books - Hornbill and Snapshots
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	- "We are not Afraid to Die..." - "The Address " -After reading each chapter, write a brief summary of approximately 200 words, message and themes of these chapters. Ensure that your summaries are concise, well-structured, and capture the essence of the chapters effectively. V. Biographical Sketch of Walt Whitman (Writing/Art Integration) - Write a concise biographical sketch of the renowned poet Walt Whitman, highlighting his life, literary contributions, and impact on American literature. Ensure that your sketch is well-structured, capturing the essence of Whitman's journey in no more than 150 words. Or Prepare a display for the soft-board inspired by the poet Walt Whitman and his poem Voice Of The Rain (Hornbill). General instructions: 1. Maintain a separate notebook for your holiday homework . 2. Ensure that your work is neat and well organized. 3. Be prepared to discuss and share your work with your classmates when school reopens.
Maths	Solve all the questions from the chapters Sets, Relations and Functions, and Trigonometry, including the examples, in the Holiday Homework notebook.
Physics	Chapters Covered:- Motion in a Straight Line , Motion in a Plane 1. Concept Summary Notes:- Prepare detailed handwritten notes covering key concepts from both chapters:- Displacement, velocity, acceleration, Average vs instantaneous quantities, Uniform and non-uniform motion, Relative velocity , vectors , Resultant of a vector, resolution of a vector product of vectors. Include diagrams, definitions, and derivations of all major formulas. Revised both chapters. 2. Formula Handbook:- Make a mini booklet or chart that includes all the important formulas from both chapters. Mention the physical quantities involved, their SI units, and typical applications. 3. Daily Motion Tracker:- Choose one activity from your daily life (e.g., cycling, running, or driving a scooter). Track the time and approximate distance covered over short intervals (e.g., every 10 seconds for 2 minutes). Plot a velocity-time graph and calculate acceleration and displacement using area under the curve. 4. Motion Mind Map (Mandatory) :- On a chart paper, create a mind map covering both chapters. Your mind map should include: Main topics: Motion in a Straight Line, Motion in a Plane Sub-topics: Definitions, Graphs, Equations, Vectors, Projectiles, etc. Use of diagrams, color coding, arrows, icons, and keywords Tip: Use branches to visually connect one concept to the other (e.g. scalar vs vector, 1D vs 2D motion). “ Revise whole syllabus for a test after summer Vacations”

Chemistry	1. Complete handwritten notes of all 3 chapters ✍ But not in simple copy format — make them creative. Use colored headings and keywords. Use boxes for formulas or important points. Add diagrams (atomic models, periodic table, etc.) Use flowcharts or concept maps where possible. ☐ 2. Do any one simple model or chart work ☐ Choose any one: 1. Atomic structure (Bohr's model using paper or wires) 2. Modern Periodic Table chart with color coding 3. Flowchart of Mole Concept formulas and conversions ☐ Use cardboard, waste material, color pens, etc. ☐ 3. Practice Numericals from Chapter 1 ☐ Solve at least 10 numericals from the topic "Mole Concept" and "Laws of Chemical Combination." (Write them in a separate section in your notebook.) ☐ 4. Prepare 10 short questions and answers from each chapter ☐ Total: 30 Questions (10 × 3 chapters) Write them in your own words Keep answers short and clear ☐ These questions may be used in classroom quiz after vacation. Class 11th chemistry assignment Multiple Choice Questions (MCQs) 1. The SI unit of amount of substance is: A) Mole B) Gram C) Kilogram D) Atom

2. Which of the following is NOT a fundamental quantity?

- A) Time
- B) Mass
- C) Volume
- D) Length

3. Which law states that “mass is neither created nor destroyed in a chemical reaction”?

- A) Law of Multiple Proportions
- B) Law of Definite Proportions
- C) Law of Conservation of Mass
- D) Gay-Lussac's Law

4. The molar mass of CaCO_3 is:

- A) 40 g/mol
- B) 60 g/mol
- C) 100 g/mol
- D) 56 g/mol

5. In Bohr's model of the atom, electrons revolve around the nucleus in:

- A) Elliptical paths
- B) Fixed circular orbits
- C) Irregular paths
- D) Straight lines

6. Which quantum number explains the orientation of orbitals?

- A) Principal (n)
- B) Azimuthal (l)
- C) Magnetic (m)
- D) Spin (s)

7. The total number of electrons in an atom with atomic number 15 is:

- A) 14
- B) 16

C) 15

D) 13

8. Which of the following elements has the highest ionisation energy?

A) Li

B) Na

C) F

D) Cl

9. The periodic law is based on:

A) Atomic mass

B) Atomic number

C) Atomic volume

D) Neutron number

10. Which group contains noble gases in the modern periodic table?

A) Group 1

B) Group 2

C) Group 17

D) Group 18

11–20: Short Answer Questions

11. Define 1 mole. How many molecules are there in 1 mole of water?

12. Differentiate between empirical formula and molecular formula with examples.

13. Calculate the number of atoms in 5.6 g of iron (Atomic mass = 56 u).

14. State Hund's rule of maximum multiplicity with an example.

15. What is the maximum number of electrons that can be accommodated in the 'n = 3' shell?

16. Define the four quantum numbers. Write their significance.

17. Write the electronic configuration of:

a) Magnesium (Z = 12)

b) Chromium (Z = 24)

18. Why do elements in the same group show similar chemical properties?

19. Define electronegativity. How does it vary across a period and down a group?

20. Write any two limitations of Mendeleev's periodic table.

Long Answer Questions

21. Calculate the empirical and molecular formula of a compound containing 52.2% C, 13.0% H, and 34.8% O. Its molar mass is 46 g/mol.

22. Derive the relationship between the radius of orbit and principal quantum number (n) according to Bohr's model.

23. State and explain the Heisenberg Uncertainty Principle. What are its implications?

24. Compare Dobereiner's triads, Newlands' octaves, and Mendeleev's periodic table. Highlight their key contributions.

25. Define the terms:

- a) Atomic radius
- b) Ionization enthalpy
- c) Electron gain enthalpy
- d) Electronegativity

Explain their trends in the periodic table.

26. Using the Aufbau principle, Pauli's exclusion principle, and Hund's rule, write the electronic configuration of the following elements:

- a) Oxygen ($Z = 8$)
- b) Iron ($Z = 26$)
- c) Argon ($Z = 18$)

27. What are isotopes, isobars, and isotones? Give one example of each.

28. A compound contains 40% carbon, 6.7% hydrogen and 53.3% oxygen. Find its empirical formula. (Atomic masses: C = 12, H = 1, O = 16)

29. Write short notes on:

- a) Shielding effect
- b) Periodicity
- c) Valency and its variation across the periodic table

30. State and explain Dalton's atomic theory. Mention two limitations of the theory.

Music	1.Learn and write :- Naad Shruti Swar Saptak in Notebook. 2.Make a chart on any Musical instrument.
Physical Education	1.शारीरिक शिक्षा में बदलती पर प्रवृत्तियां और करियर 1.1 शारीरिक शिक्षा की परिभाषा इसके लक्ष्य तथा उद्देश्य 1.2 स्वतंत्रता प्राप्ति के पश्चात शारीरिक शिक्षा का इतिहास 1.3 एकीकृत या समग्र शारीरिक शिक्षा की अवधारणा वह व सिद्धांत 1.4 रूपांतरित शारीरिक शिक्षा की अवधारणा व सिद्धांत 1.5 विशेष ओलंपिक भारत 1.6 शारीरिक शिक्षा में करियर विकल्प 2.शारीरिक पुष्टि सुयोग्यता व जीवनशैली 1.1 शारीरिक पुष्टि स्वच्छता सुयोग्यता व जीवन शैली का अर्थ व महत्व 1.2 शारीरिक पुष्टि के अंग 1.3 सुयोग्यता के अंग 1.4 जीवन शैली में बदलाव के माध्यम से स्वास्थ्य की जोखिम या खतरों की रोकथाम 1.5 सकारात्मक जीवन शैली के घटक पूरे पाठ्यक्रम का पुनरावलोकन करें
Fine Arts	Q1.Read unit 1. Pre Rock painting and art of Indus valley. Learn the unit. Q.2 Make any 5 portrait carcoal & colour Q3.Make Any 5 composition use daily life & colour it. Q4.Make any 5 object use daily life. & colour it. Like „Thermos, Water bottle, Apple, Book etc.