Summer Holiday *Homework- 2025-2026* *Class-VIII**

English

Reading Skills

1. Read the chapters taught in English. Learn the Question and Answers.

2. Read the Newspaper daily and write only one news article under the given headings like National, International, Sports, Business and express your views on it.

3. Read Chapters 1-5 and write the ques/ans in your fair notebook from the book(Count of Monte Christo).

Writing Skills

4. You encountered two strange people. They were different from normal human beings but they were quite interesting and exciting. Using your ideas ,write a story in about 200-250words narrating your experience with them.

Thinking Skills

5. Write a self composed poetry on the given topics with minimum 4 stanzas.

A) Music B) I am blessed C) My school My pride

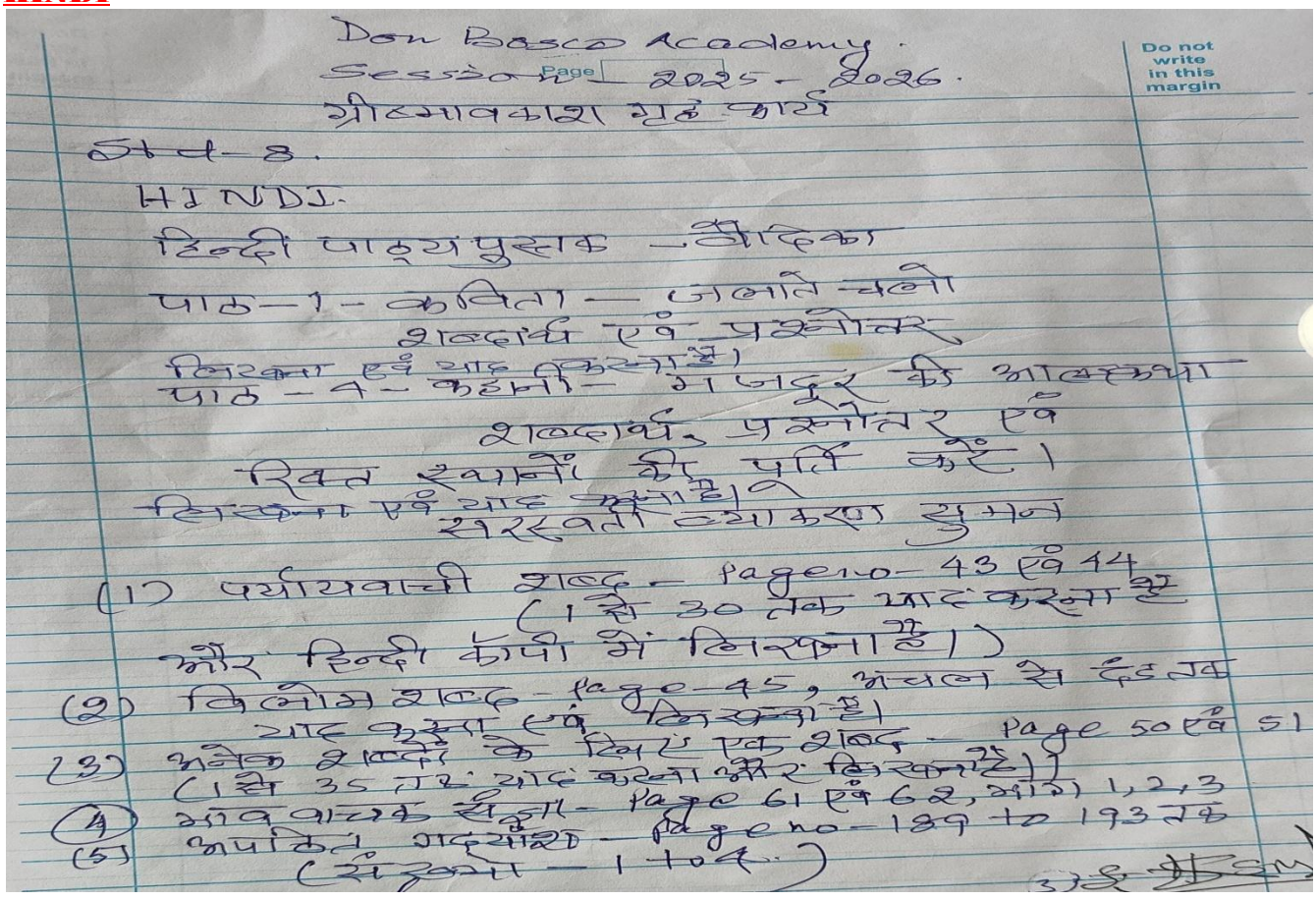
Dictionary Task

6. Refer the dictionary and write the full forms of all the abbreviations used in the dictionary.

Eg. Fem-feminine, prep-prepositions.

7. From the base form of the verb form adjectives, adverb ,nouns wherever possible by selecting minimum 30 words from the dictionary .

HINDI



Don Bosco Academy.
Session 2025 - 2026.
ग्रीष्मावकाश गृह कार्य
कक्षा - 8.
HINDI.
हिन्दी पाठ्यपुस्तक - वीणिका
पाठ - 1 - कविता - जलाते चलो
शब्दार्थ एवं प्रश्नोत्तर
लिखना एवं याद करना है।
पाठ - 4 - कहानी - मजदूर की आत्मकथा
शब्दार्थ, प्रश्नोत्तर एवं
रिक्त स्थानों की पूर्ति करें।
लिखना एवं याद करना है।
सरस्वती व्याकरण सुमन
(1) पर्यायवाची शब्द - Page no- 43 एवं 44
(1 से 30 तक याद करना है
और हिन्दी कॉपी में लिखना है।)
(2) विलोम शब्द - Page-45, अंचल से दंड तक
याद करना एवं लिखना है।
(3) अनेक शब्दों के लिए एक शब्द - Page 50 एवं 51
(1 से 35 तक याद करना और लिखना है।)
(4) वाक्य शुद्धि - Page 61 एवं 62, अभ्यास 1, 2, 3
(5) अपठित गद्यांश - Page no - 189 to 193 तक
(संख्या - 1 to 4.)
Do not write in this margin

Physics

Answer the following questions.

1) Define the following terms.
   a) Melting
   b) Freezing
   c) Boiling
   d) Condensation
   e) Sublimation
   f) Deposition
   g) Evaporation
   h) Density
   i) Relative density
2) State Archimedes principle.
3) Write the principle of flotation.
4) Draw a flow chart to represent the change of state in a chart paper.
5) Complete the exercise question answers in your Physics copy.
6) Practice all the numericals.
7) Prepare for a test after summer holidays on topics taught.

Chemistry

The following has to be learnt

Monovalent Electropositive Radicals (Basic Radicals)

1	Ammonium	NH_4^+
2	Argentous (Silver I)	Ag^+
3	Cuprous (Copper I)	Cu^+
4	Hydrogen	H^+
5	Sodium	Na^+
6	Potassium	K^+

Monovalent Electronegative Radicals (acidic Radicals)

1	Bicarbonate or Hydrogen carbonate	HCO_3^-
2	Bisulphide or Hydrogen sulphide	HS^-
3	Bisulphate or Hydrogen Sulphate	HSO_4^-
4	Bisulphite or Hydrogen Sulphite	HSO_3^-
5	Bromide	Br^-
6	Chloride	Cl^-
7	Permanganate	MnO_4^-
8	Fluride	F^-
9	Hydride	H^-
10	Hydroxide	OH^-
11	Iodide	I^-
12	Nitrate	NO_3^-
13	Nitrite	NO_2^-
14	Meta aliminate	AlO_2^-

Divalent Electropositive Radicals (Basic Radicals)

1	Argentic (Silver II)	Ag^{2+}
2	Barium	Ba^{2+}
3	Calcium	Ca^{2+}
4	Cupric (Copper II)	Cu^{2+}
5	Ferrous (Iron II)	Fe^{2+}
6	Magnesium	Mg^{2+}
7	Plumbous (Lead II)	Pb^{2+}
8	Zinc	Zn^{2+}

Divalent Electronegative Radicals (Acidic Radicals)

1	Carbonate	$CO3^{2-}$
2	Dichromate	$Cr2O7^{2-}$
3	Oxide	O^{2-}
4	Sulphate	$SO4^{2-}$
5	Sulphite	$SO3^{2-}$
6	Sulphide	S^{2-}
7	Zincate	$ZnO2^{2-}$
8	Plumbite	$PbO2^{2-}$

Trivalent Electropositive Radicals (Basic Radicals)

1	Aluminium	Al^{3+}
2	Chromium	Cr^{3+}
3	Ferric (Iron III)	Fe^{3+}

Trivalent Electronegative Radicals (Acidic Radicals)

1	Nitride	N^{3-}
2	Phosphate	PO_4^{3-}
3	Aluminate	AlO_3^{3-}

Tetravalent Electropositive Radical (Basic Radical) Tetravalent

1	Plumbic (Lead IV)	Pb^{4+}

Electronegative Radical (Acidic Radical)

1	Carbide	C^{4-}

Common Name Chemical Name & Formula (To be learnt)

Sl. No	Common Name	Chemical Name	Formula
1	Common salt/ Table salt/ rock salt/ black salt	Sodium chloride	NaCl
2	Baking Soda	Sodium hydrogen carbonate or sodium bicarbonate	NaHCO3

3	Washing Soda	Sodium Carbonate deca hydrate or Hydrated Sodium carbonate	$Na_2CO_3.10H_2O$
4	Marble or Lime stone or chalk	Calcium Carbonate	$CaCO_3$
5	Quick Lime	Calcium oxide	CaO
6	Slaked lime	Calcium hydroxide	$Ca(OH)_2$
7	Blue Vitriol	Copper Sulphate pentahydrate or hydrated Copper sulphate	$CuSO_4..5H_2O$
8	Caustic Soda	Sodium hydroxide	$NaOH$
9	Caustic Potash	Potassium hydroxide	KOH
10	Vinegar	Acetic Acid	CH_3COOH
11	Dry Ice	Solid Carbon dioxide	CO_2
12	Plaster of Paris	Calcium sulphate hemihydrate or Hydrated Calcium Sulphate	$CaSO_4.\ ½\ H_2O$
13	Rust	Hydrated Iron(III) oxide or Hydrated Ferric Oxide	$Fe_2O_3.\ x\ H_2O$
14	Bleaching Powder	Calcium oxychloride	$CaOCl_2$
15	Green Vitriol	Ferrous sulphate heptahydrate or Hydrated ferrous slphate	$FeSO_4.7H_2O$
16	Muriatic Acid	Hydrochloric Acid	HCl
17	Marsh Gas	Methane	CH_4
18	Cane sugar	Sucrose	$C_{12}H_{22}O_{11}$
19	Epsom salt	Hepta hydrate of Magnesium sulphate	$MgSO_4.7H_2O$
20	Fluorspar	Calcium fluoride	CaF_2
21	Glauber's salt	Hydrated sodium sulphate	$Na_2SO_4.\ 10\ H_2O$
22	Iron pyrite (Fools gold)	Iron disulphide	FeS_2
23	Lime water or milk of lime	Calcium hydroxide solution	$Ca(OH)_2$
24	Milk of Magnesia	Magnesium hydroxide	$Mg(OH)_2$
25	Oil of Vitriol or King of chemicals	Concentrated Sulphuric acid	H_2SO_4
26	Water	Dihydrogen oxide	H_2O
27	Ammonia	Trinirogen hydride	NH_3
28	King of Chemicals	Sulphuric acid	H_2SO_4
29	Fool's Gold	Iron pyrite	FeS_2
30	Quick silver	Mercury	Hg

Do the following in your Chemistry Notebook

Balance the following chemical equations.

(*i*) $N_2 + O_2 \longrightarrow NO$

(*ii*) $NO + O_2 \longrightarrow NO_2$

(*iii*) $NO_2 + H_2O + O_2 \longrightarrow HNO_3$

(*iv*) $Pb(NO_3)_2 \xrightarrow{\Delta} PbO + NO_2 + O_2$

(*v*) $AgNO_3 \xrightarrow{\Delta} Ag + NO_2 + O_2$

(*vi*) $Ag_2CO_3 \xrightarrow{\Delta} Ag + CO_2 + O_2$

(*vii*) $C_{22}H_{46} + Cl_2 \longrightarrow C + HCl$

(*viii*) $CuSO_4 + NaOH \longrightarrow Na_2SO_4 + Cu(OH)_2$

(*ix*) $NaNO_3 \xrightarrow{\Delta} NaNO_2 + O_2$

(*x*) $KNO_3 \xrightarrow{\Delta} KNO_2 + O_2$

(*xi*) $NH_3 + Cl_2 \longrightarrow NCl_3 + HCl$

(*xii*) $NH_3 + Cl_2 \longrightarrow NH_4Cl + N_2$

(*xiii*) $PbO + HNO_3 \longrightarrow Pb(NO_3)_2 + H_2O$

(*xiv*) $NaOH + Cl_2 \longrightarrow NaCl + NaClO + H_2O$

(*xv*) $NaOH + Cl_2 \longrightarrow NaCl + NaClO_3 + H_2O$

(*xvi*) $CH_4 + O_2 \longrightarrow CO_2 + H_2O$

(*xvii*) $C_2H_6 + O_2 \longrightarrow CO_2 + H_2O$

(*xviii*) $C_2H_4 + O_2 \longrightarrow CO_2 + H_2O$

(*xix*) $C_2H_2 + O_2 \longrightarrow CO_2 + H_2O$

(*xx*) $Na + H_2O \longrightarrow NaOH + H_2$

(*xxi*) $Pb_3O_4 \xrightarrow{\Delta} PbO + O_2$

(*xxii*) $PbO_2 \xrightarrow{\Delta} PbO + O_2$

(*xxiii*) $Mg + HNO_3 \longrightarrow Mg(NO_3)_2 + H_2$

(*xxiv*) $NH_3 + CuO \longrightarrow N_2 + H_2O + Cu$

(*xxv*) $NH_3 + O_2 \longrightarrow N_2 + H_2O$

(*xxvi*) $H_2S + Cl_2 \longrightarrow HCl + S$

(*xxvii*) $H_2S + SO_2 \longrightarrow H_2O + S$

(*xxviii*) $H_2S + H_2SO_4 \longrightarrow H_2O + SO_2 + S$

(*xxix*) $S + HNO_3 \longrightarrow H_2SO_4 + NO_2 + H_2O$

(*xxx*) $C + HNO_3 \longrightarrow CO_2 + NO_2 + H_2O$

(*xxxi*) $P + HNO_3 \longrightarrow H_3PO_4 + NO_2 + H_2O$

(*xxxii*) $NaCl + H_2SO_4 \longrightarrow Na_2SO_4 + HCl$

(*xxxiii*) $Cu + H_2SO_4 \longrightarrow CuSO_4 + H_2O + SO_2$

(*xxxiv*) $KClO_3 \longrightarrow KCl + O_2$

(*xxxv*) $FeS_2 + O_2 \longrightarrow Fe_2O_3 + SO_2$.

Write the formulae and balance the following chemical equations:

(*i*) Zinc + dilute Sulphuric acid ⟶ Zinc sulphate + Hydrogen

(*ii*) Copper + conc. Nitric acid ⟶ Copper nitrate + Nitrogen dioxide + Water

(*iii*) Copper + dil. Nitric acid ⟶ Copper nitrate + Nitric oxide + Water

(*iv*) Ammonium chloride + Calcium hydroxide ⟶ Calcium chloride + Water + Ammonia

(*v*) Ammonia + Oxygen ⟶ Nitric oxide + Water

(*vi*) Manganese (IV) oxide + conc. Hydrochloric acid ⟶ Manganese (II) chloride + Water + Chlorine

(*vii*) Potassium dichromate + conc. Hydrochloric acid ⟶ Potassium chloride + Chromium chloride + Water + Chlorine

(*viii*) Sulphur dioxide + Oxygen ⟶ Sulphur trioxide

(*ix*) Zinc + Water ⟶ Zinc oxide + Hydrogen

(*x*) Aluminium + dil. Hydrochloric acid ⟶ Aluminium chloride + Hydrogen

(*xi*) Magnesium + Nitrogen ⟶ Magnesium nitride

(*xii*) Magnesium nitride + Water ⟶ Magnesium hydroxide + Ammonia

(*xiii*) Copper hydroxide $\xrightarrow{\Delta}$ Copper oxide + Water

(*xiv*) Potassium chlorate $\xrightarrow{\Delta}$ Potassium chloride + Oxygen

(*xv*) Zinc sulphide + Oxygen ⟶ Zinc oxide + Sulphur dioxide

BIOLOGY

1. GIVE REASON FOR THE FOLLOWING STATEMENTS.

a. Xylem cells are basically non-living.
b. Parenchyma has no intercellular spaces.
c. Muscle cells are contractile.
d. The cells are the fundamental unit of life.
e. Permanent tissues are specialised.
f. Meristematic tissues are responsible for growth.
g. Vascular bundles are conducting tissues.
h. Protoplasm is the life-giving substance present in the cell.
i. Guard cells are kidney-shaped.
j. Chloroplast carries out photosynthesis.
k. Beetroot leaves its colour when put in water.
l. Vacuoles are absent in meristematic tissue.

2. Draw all the diagrams of chapters on cell and plant tissues in your biology exercise notebook.

All the diagrams should be neatly labelled with a pencil.

3. Revise and learn all the notes and question answers of the above chapters and prepare for the unit test.

History and Civics

I.Write the following in the fair notebook and learn it.
History
1.Exercises II &III from chapter-1:The Harappan Civilisation.
Civics
1.Exercises II&III from ch-1: Our Constitution.

II.Make 15 objective type questions and answers each from the following chapters and write the same in the fair notebook.
History
Ch-1 The Harappan Civilisation
Civics
Ch-1.Our Constitution.
Ch-2: Salient features of the Constitution-1

GEOGRAPHY

I. Write the following in your Geography exercise book and learn it.
Chapter 2 - Population dynamics
Exercises 4, 5, 6 and 7
Chapter 3 - Migration
Exercises 4 and 5
II. Make 15 objective type questions and answers each from the following chapters and write the same in your Geography exercise book.
Chapter -1 : Population dynamics
Chapter - 2 : Migration

Maths

DON BOSCO ACADEMY PATNA
SUMMER HOLIDAYS HOME WORK 2025-2026

STANDARD: 8
SUBJECT: MATHEMATICS

1. Evaluate the following:
   a) $4\frac{1}{2} - 3\frac{3}{8}$
   b) $7\frac{3}{4} + 4\frac{3}{5}$
   c) $2\frac{3}{4} \times 5\frac{7}{8}$
   d) $7\frac{1}{3} \div 1\frac{5}{6}$
2. What rational number should be added to $\frac{-4}{11}$ to get $\frac{-3}{8}$?
3. Divide the sum of $\frac{4}{13}$ and $\frac{-3}{2}$ by their product.
4. Represent $\frac{-6}{5}$, $\frac{-2}{5}$, 0 and $\frac{7}{5}$ on the number line.
5. If $p = \frac{-4}{9}$, $q = \frac{2}{3}$ and $r = \frac{-8}{11}$ verify that $p \times (q + r) = p \times q + p \times r$.
6. Express 9^4 as a power with base 3.
7. Simplify $\left\{\left(\frac{1}{3}\right)^{-2} - \left(\frac{1}{2}\right)^{-3}\right\} \div \left(\frac{1}{4}\right)^{-2}$
8. Find n so that $2^{11} \div 2^5 = 2^{-3} \times 2^{2n-1}$
9. A football team won 9 matches out of the total number of matches they played. If their win percentage was 45, then how many matches did they play in all?
10. Rajesh bought two table fans for Rs. 1800 each. He sold one at a loss of 8% and the other at a profit of 12%. Find the selling price of each. Also find out the total profit or loss percentage.
11. Rajesh bought a laptop for Rs. 41300 including 18% GST. Find the price of laptop before GST was added.
12. An OTT platform offers monthly subscription plan for RS 200 per month or an annual subscription plan for Rs. 2000 per annum. How much discount percentage do you get on annual subscription plan compared to monthly subscription plan?
13. Subtract $5x^3 - 3x^2 - 8$ from $2x^3 - 5x^2 - 11x + 2$
14. Multiply $(5x - 2)\ by (3x + 4)$
15. The perimeter of a triangle is $7p^2 - 5p + 11$ and two of its sides are $p^2 + 2p - 1$ and $3p^2 - 6p + 3$. Find the third side of the triangle.

COMPUTER

Prepare a neat Data Types table into your Computer copy.