



SUMMER HOLIDAYS HOMEWORK CLASS – X SESSION – 2026-27

General Instructions-

1. The school will remain closed from 25.05.2026 to 30.06.2026 due to Summer Vacation.
2. The school will re-open on 01 July 2026 (Wednesday) as usual.
3. Parents are requested to help their wards in doing their Holiday Homework.
4. Please do your homework of all subjects in a single note-book or as instructed by the subject teacher.
5. For any help you may contact the subject teachers as well.
6. **Respect the Deadline:** Submit all holiday homework on time (the first week) after the vacation. Late submissions may lead to deduction in Internal marks.
7. **Be Organized:** Keep your homework tidy and well-organized. Use proper headings, margins.
8. **Write Your Own Work:** Copying from friends or the internet is not allowed. Show your creativity and understanding.
9. **Label Everything:** Make sure your name, class, roll number, and subject are clearly written on each assignment.

MATHEMATICS

Revise chapters:

- 1-Real numbers
- 2- Polynomials
- 3- Linear equation in two variables
- 4- Quadratic Equations

Revise all chapters from NCERT and any of the class 10 Reference book

SCIENCE

PHYSICS -

Revise the Chapter-9 LIGHT-REFLECTION & REFRACTION and Solve NCERT Exercise on Class Note-book.

Prepare the LAB MANUAL and the write the experiments from the attached file [SCIENCE LAB MANUAL\(PHYSICS\)](#)

BIOLOGY –

- # Write NCERT Textbook que/ans. Up to transportation
- # Draw labelled diagram of heart and nephron
- # Do these work in fair notebook
- # Learn PD -I syllabus of Biology.

CHEMISTRY -

Multiple Choice Questions For Chemical Reactions and Equations

- The chemical formula of lead sulphate is
(a) Pb_2SO_4 (b) $\text{Pb}(\text{SO}_4)_2$ (c) PbSO_4 (d) $\text{Pb}_2(\text{SO}_4)_3$
- Which information is not conveyed by a balanced chemical equation?
(a) Physical states of reactants and products
(b) Symbols and formulae of all the substances involved in a particular reaction
(c) Number of atoms/molecules of the reactants and products formed
(d) Whether a particular reaction is actually feasible or not
- Chemically rust is
(a) hydrated ferrous oxide (b) only ferric oxide
(c) hydrated ferric oxide (d) none of these
- Both CO_2 and H_2 gases are
(a) heavier than air (b) colourless
(c) acidic in nature (d) soluble in water
- Which of the following gases can be used for storage of fresh sample of an oil for a long time?
(a) Carbon dioxide or oxygen (b) Nitrogen or helium
(c) Helium or oxygen (d) Nitrogen or oxygen
- The electrolytic decomposition of water gives H_2 and O_2 in the ratio of
(a) 1 : 2 by volume (b) 2 : 1 by volume
(c) 8 : 1 by mass (d) 1 : 2 by mass
- In the decomposition of lead (II) nitrate to give lead (II) oxide, nitrogen dioxide and oxygen gas, the coefficient of nitrogen dioxide (in the balanced equation) is
(a) 1 (b) 2 (c) 3 (d) 4
- Fatty foods become rancid due to the process of
(a) oxidation (b) corrosion (c) reduction (d) hydrogenation
- We store silver chloride in a dark coloured bottle because it is
(a) a white solid (b) undergoes redox reaction
(c) to avoid action by sunlight (d) none of the above
- Silver article turns black when kept in the open for a few days due to formation of
(a) H_2S (b) Ag_2S (c) Ag_2SO_4 (d) Ag_2S
- When crystals of lead nitrate are heated strongly in a dry test tube
(a) crystals immediately melt (b) a brown residue is left
(c) white fumes appear in the tube (d) a yellow residue is left
- Dilute hydrochloric acid is added to granulated zinc taken in a test tube. The following observations are recorded. Point out the correct observation.
(a) The surface of metal becomes shining
(b) The reaction mixture turns milky
(c) Odour of a pungent smelling gas is recorded
(d) A colourless and odourless gas is evolved
- When carbon dioxide is passed through lime water,
(a) calcium hydroxide is formed (b) white precipitate of CaO is formed
(c) lime water turns milky (d) colour of lime water disappears.
- When a magnesium ribbon is burnt in air, the ash formed is
(a) black (b) white (c) yellow (d) pink
- In which of the following, heat energy will be evolved?
(a) Electrolysis of water
(b) Dissolution of NH_4Cl in water
(c) Burning of L.P.G.

(d) Decomposition of AgBr in the presence of sunlight

16. Rancidity can be prevented by

- (a) adding antioxidants (b) storing food away from light
(c) keeping food in refrigerator (d) all of these

17. The reaction of H_2 gas with oxygen gas to form water is an example of

- (a) combination reaction (b) redox reaction
(c) exothermic reaction (d) all of these reactions

18. The reaction in which two compound exchange their ions to form two new compounds is called

- (a) displacement reaction (b) combination reaction
(c) double displacement reaction (d) redox reaction

19. On immersing an iron nail in $CuSO_4$ solution for few minutes, you will observe

- (a) no reaction takes place
(b) the colour of solution fades away
(c) the surface of iron nails acquire a black coating
(d) the colour of solution changes to green

20. An element X on exposure to moist air turns reddish-brown and a new compound Y is formed. The substance X and Y are

- (a) X = Fe, Y = Fe_2O_3 (b) X = Ag, Y = Ag_2S
(c) X = Cu, Y = CuO (d) X = Al, Y = Al_2O_3

Chemical Reactions and Equations

1. What is a redox reaction?
2. What is corrosion? Explain its advantage and disadvantage.
3. What is rancidity? How can we reduce the problem of rancidity?
4. How is corrosion different from rusting?
5. What is meant by endothermic and exothermic reactions? Give suitable example for each.
6. Define different types of chemical reaction and give examples for each.
7. Why is photosynthesis considered as an endothermic reaction?
8. In electrolysis of water, why is the volume of gas collected over one electrode double that of the other electrode?
9. What happens when water is added to solid calcium oxide taken in a container? Write a chemical formula for the same.
10. Give one use of quick lime.
11. Give three types of decomposition reaction.
12. Name the compound used for testing CO_2 gas.

SOCIAL SCIENCE

Answer each question in about 52–80 words.

1.

Nationalism helped unite people in Europe through common identity and political ideas. In modern democratic countries, unity depends on equality, justice, and participation.

Discuss how nationalism and power sharing together help in maintaining unity and stability in a nation today.

2.

Rapid development in highly developed cities increases the demand for water, electricity, land, and fuel resources.

Explain how careless use of resources can affect future development and suggest two practical measures for responsible resource management.

3.

Development is often measured through income, industries, and technology, but social equality is also important.

Analyze why economic growth alone cannot make a country truly developed. Give examples related to education, healthcare, or equal opportunities.

4.

Many countries face conflicts based on language, religion, region, or unequal distribution of resources.

How can power sharing and fair development reduce social tensions and strengthen national unity? Explain with suitable arguments.

5.

The rise of nationalism in Europe changed political systems and encouraged people to demand rights and representation.

Compare this idea with present-day democracy and explain why citizens' participation remains important for the development of a nation.

ENGLISH LANGUAGE & LITERATURE

SECTION A: READING COMPREHENSION

Practice 5 unseen passages. Answer in your notebook.

Q1. 1 Passage Topics:

1. Impact of Social Media on Teenagers
2. Benefits of Yoga and Meditation
3. Space Tourism – Future of Travel
4. Rise of Electric Vehicles in India
5. Digital Payment Revolution
6. Are Smartphones Making Us Smarter or Lazier?
7. Online Classes vs Traditional Classes
8. Should Homework Be Banned?
9. Importance of Mental Health Awareness
10. Books vs Google – Where Should We Learn From?

SECTION B: WRITING SKILLS

Do any 4 total from this section

1. Letter Writing – 120 words

1. Letter to Editor: Poor condition of roads in your area
2. Letter to Editor: Need for more public libraries for students
3. Letter of Complaint: Defective product received from online store
4. Letter of Enquiry: Asking about summer courses in coding
5. Letter to Principal: Requesting a self-defence workshop for girls

2- Story Writing – 150-200 words

Complete the story:

1. It was a rainy day and the lights went out suddenly. Then I heard...
2. When I opened the old trunk in grandma's house, I found...
3. The train stopped in the middle of a forest at midnight...

4. I woke up and realized I could understand animals...

SECTION C: GRAMMAR

Make a grammar practice notebook. Do 10 questions of each type.

Topics to Cover:

1. Tenses: Fill in blanks, correct errors, rewrite sentences
2. Modals: Advice, possibility, obligation, permission
3. Subject-Verb Agreement: Choose correct verb, find errors
4. Reported Speech: Dialogue to indirect speech conversion
5. Determiners: Fill with much, many, few, little, some, any
6. Integrated Grammar: 4-question gap filling passages

SECTION D: LITERATURE – First Flight + Footprints Without Feet

Answer in 40-50 words and 100-120 words

1. Short Questions – 40-50 words each

Pick any 10 chapters and answer 1 question per chapter:

1. Why did Lencho have faith in God? A Letter to God
2. What twin obligations does Mandela mention? Nelson Mandela
3. Why was the young seagull afraid to fly? His First Flight
4. Write the character sketch of Lencho.
- 5- Write the character sketch of Nelson Mandela.

2. Long Questions – 100-120 words each

1. “Faith can move mountains.” Explain with reference to A Letter to God.
2. Compare the childhood experiences of Nelson Mandela and Anne Frank.
3. Fear is the biggest obstacle to success. Explain with His First Flight and Black Aeroplane.

3. Poetry Based Questions – 40-50 words

1. What message does the poet give in Dust of Snow?
2. Why does the poet of Fire and Ice hold with those who favor fire?
3. What is the central idea of A Tiger in the zoo?

HINDI

- आपको प्रिय पदों में से सूरदास के दो पद लिखिए।
- हिंदी के 12 महीना के नाम लिखकर याद कीजिए।
- वसंत ऋतु में प्रकृति में क्या-क्या परिवर्तन होते हैं लिखिए। वसंत ऋतु पर आधारित दो कविताएँ लिखिए।
- अपने घर के आस-पास देखिए और पता लगाइए कि नगरपालिका ने क्या-क्या काम करवाए हैं? उसमें हमारी भूमिका क्या हो सकती है?
- आप अपने मनपसंद संगीतकार (कलाकार) के बारे में 100 से 120 शब्दों में एक अनुच्छेद लिखिए।

PAINTING

Theory Work

1. Revise **Chapter 1 and Chapter 2**
2. Learn and revise:
 - * Elements of Art
 - * Shadang (Six Limbs of Painting)
 - * Principles of Art

Practical File Work

Complete the practical file with neat presentation:

Pencil Shading

- * **5 Still Life Drawings**
- * **5 Landscape Drawings**

Water Colour

- * **5 Still Life Paintings**
- * **5 Landscape Paintings**

Instructions

- * Maintain cleanliness and proper arrangement in the file.
- * Use proper colouring and shading techniques.
- * Submit the homework on time.

INFORMATION TECHNOLOGY

Write one heading on daily basis from chap 1 and 2 (Unit 1 Communication Skill II) and chap 8,9,10,11,12 (Unit III Database Management System)