



SIDHESHWAR
PUBLIC SCHOOL
Learning Breeds Courtesy

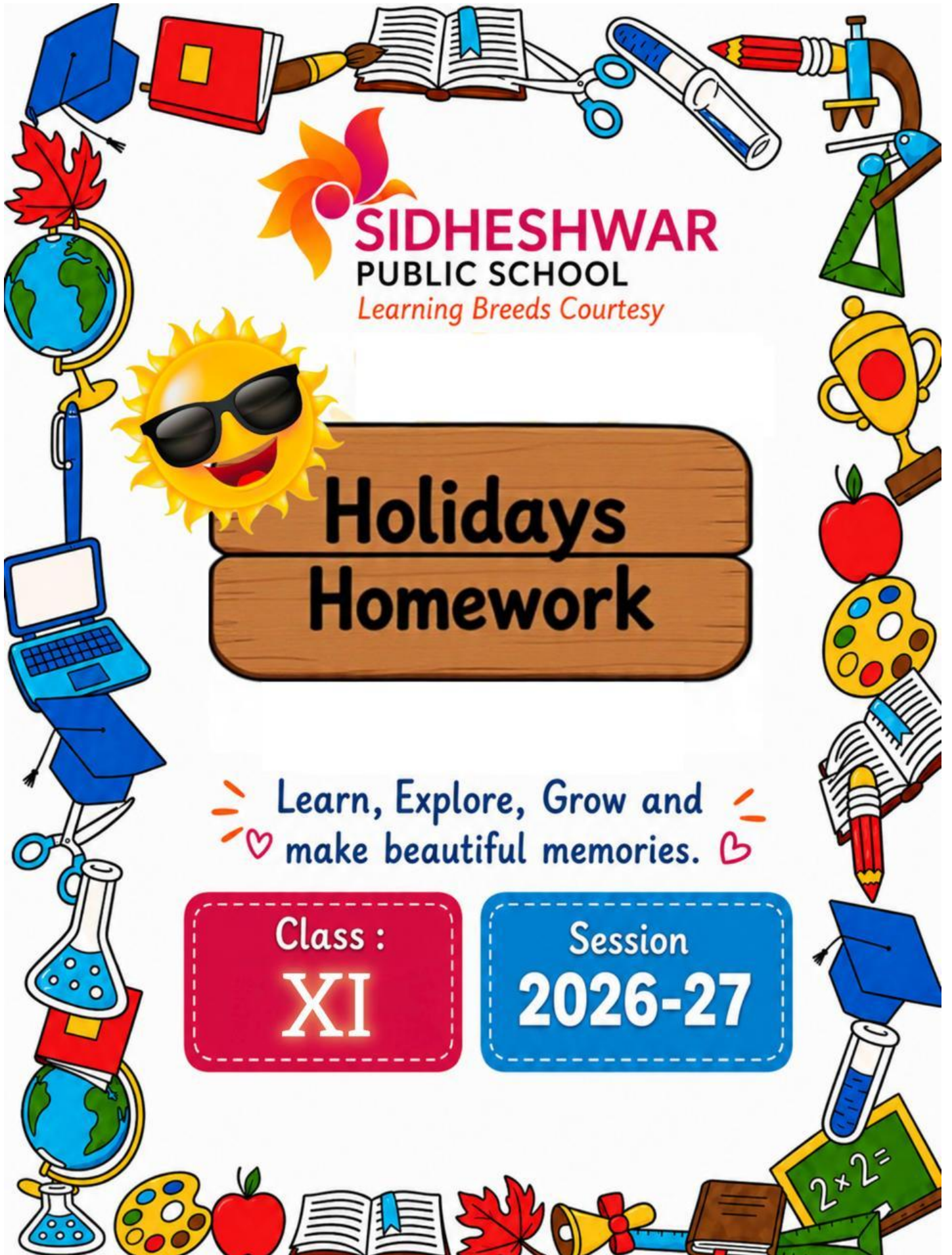


Holidays Homework

Learn, Explore, Grow and
make beautiful memories.

Class :
XI

Session
2026-27



SCIENCE

Biology

1. Learn all the chapters that have been taught in class.
2. Do the given assignments.

ASSIGNMENT – 1

1. Define biodiversity.
2. What is taxonomy?
3. Why are living organisms classified?
4. What is the advantage of scientific names?
5. Define taxon.
6. Name any four criteria used in modern taxonomic studies.
7. Define 'family'. Name two genera included in the family Solanaceae.
8. Describe binomial nomenclature with an example.
9. Explain the guidelines/principles of nomenclature.
10. Enumerate the steps involved in the classification of an organism.
11. (a) Why do members of Phaeophyceae vary in colour from olive green to various shades of brown?
(b) Name any four members of Phaeophyceae.
12. (a) Name two species of algae from which agar is obtained.
(b) To which class of algae do they belong?
(c) Mention the economic uses of agar.
13. Both Bryophytes and Pteridophytes require water for fertilisation, yet they differ from each other in many aspects. Bring out any two differences between them.
14. How is the gametophyte of bryophytes different from that of gymnosperms?
15. Fern prothallus is monoecious. Justify.
16. What is meant by:
(i) Antheridiophore
(ii) Archegoniophore
17. Differentiate between Chlorophyceae and Phaeophyceae.
18. Why are Bryophytes called the "amphibians of the plant kingdom"?

19. why are Bryophytes called the "amphibians of the plant kingdom"?
20. Algae are aquatic plants that range from the microscopic unicellular Chlorella to massive marine algae called seaweeds. They are divided into three phyla/divisions.
(a) Mention two criteria used for the classification of algae.

- (b) What ecosystem services are carried out by algae?
 - (c) How are algae commercially useful to mankind?
21. What are gemmae? Name two plants that produce gemmae.

ASSIGNMENT – 2

1. How are archaebacteria able to live in extreme environmental conditions? Mention two such conditions in which they live.
2. How are Ascomycetes different from Basidiomycetes?
3. Mention three methods of locomotion seen among protists, with one example for each.
4. What is diatomaceous earth? Mention any four uses of it.
5. Describe the different methods of nutrition in fungi.
6. Describe the three common steps in the sexual reproduction of fungi.
7. Explain with examples why the two-kingdom classification became insufficient.
8. Highlight the criteria considered for the five-kingdom system of classification.
9. Represent different forms of cocci with diagrams.
10. The gametophytic stage of *Funaria* exists in two forms. Name them.
11. What forms the basis of classifying seed-bearing plants into gymnosperms and angiosperms? Explain.
12. Why are parasitic forms of Platyhelminthes provided with hooks and suckers, while free-living forms do not have them?
13. How does isogamous reproduction differ from anisogamous reproduction?
14. What are methanogens? Where are they found?
15. Why are *Mycoplasma* described as pleomorphic?
16. Describe the canal system of sponges.
17. Write four differences between the animals of Platyhelminthes and Aschelminthes.
18. Describe the different levels of body organization in animals, with one example for each.
19. Define the following terms and give one example of each:
 - (i) Ovipary
 - (ii) Vivipary
 - (iii) Ovovivipary

Name an animal that is oviparous and shows internal fertilization.

20. (i) Draw a labelled diagram of the basic body plan of a chordate.
- (ii) Mention the four characteristic features possessed by all chordates.

Physics

1. Do the assignments and upload them to Cloud9.
2. Do the investigatory project of your choice.

Chemistry

1. Do the given assignments.
2. Study the entire syllabus thoroughly, covering everything that has been completed up to the most recent class.

.Assignment – 1

Some Basic Concepts of Chemistry

1. How many moles of methane are required to produce 22 g of $\text{CO}_2(\text{g})$ after combustion?
2. Is the law of constant composition true for all types of compounds? Explain why or why not.
3. Why are atomic masses average values?
4. Calculate the number of atoms in each of the following:
 - (i) 52 moles of He
 - (ii) 52 u of He
 - (iii) 52 g of He
5. The empirical formula and molecular mass of a compound are CH_2O and 180 respectively. What will be the molecular formula of the compound?
6. Two oxides of lead were separately reduced to metallic lead by heating in a current of hydrogen, and the following data were obtained:
 - (i) Mass of yellow oxide taken = 3.45 g; loss in mass during reduction = 0.24 g
 - (ii) Mass of brown oxide taken = 1.227 g; loss in mass during reduction = 0.16 g

Show that the above data illustrate the law of multiple proportions.

7. Derive the relation:
Molecular mass = $2 \times$ Vapour density
8. What is the mass of one water molecule in grams?
How many molecules are present in one drop of pure water weighing 0.05 g?
If the same drop of water evaporates in one hour, calculate the number of molecules leaving the liquid surface per second.
9. Calculate the total number of electrons present in 1.6 g of oxygen gas.
10. 9.7×10^{17} atoms of iron weigh as much as 1 cc of H_2 at S.T.P. What is the atomic mass of iron?

11. What is the mass percent of the solute in the solution obtained by dissolving 5 g of solute in 50 g of water?
12. Find the percentage composition of potassium chlorate (KClO_3).
13. Calculate the empirical formula of a mineral having the following composition:
CaO = 48.0%
 P_2O_5 = 41.3%
CaCl₂ = 10.7%
14. A compound containing sodium, sulphur, hydrogen, and oxygen gave the following results on analysis:
Na = 14.28%
S = 9.92%
H = 6.20%

Calculate the molecular formula of the anhydrous compound. If all the atoms of hydrogen in the compound are present in combination with oxygen as water of crystallization, what is the structure of the crystalline salt? The molecular mass of the crystalline salt is 322.

15. Butyric acid contains only C, H, and O. A 4.24 mg sample of butyric acid was completely burnt. It produced 8.45 mg of CO_2 and 3.46 mg of H_2O . The molecular mass of butyric acid was experimentally determined to be 88 amu. What is its molecular formula?
16. Calculate the mass of iron that will be converted into its oxide (Fe_3O_4) by the action of 18 g of steam on it.

Assignment – 2

Structure of Atom

1. How are cathode rays produced?
2. State Heisenberg's uncertainty principle. Give its mathematical expression.
3. What happened to Bohr's model of the atom in the light of the uncertainty principle? Explain the concept of probability. Define atomic orbital.
4. State and explain the following:
 - (a) Aufbau principle
 - (b) Pauli exclusion principle
 - (c) Hund's rule of maximum multiplicity
5. List the main points of difference between an orbit and an orbital.
6. Draw and discuss the shape of d-orbitals.
7. Why do some atoms possess exceptional electronic configurations? Explain with a suitable example.

- How do 1s, 2s, and 3s orbitals differ from each other?
- Write the electronic configurations of Cu (29) and Cr (24).
- What is meant by the dual nature of particles in motion?
- Which one is more paramagnetic, Fe^{3+} or Fe^{2+} , and why?
- How many electrons in sulphur ($Z = 16$) can have $(n + l) = 3$?
- Why is the Pauli exclusion principle called the exclusion principle?
- Calculate the de Broglie wavelength of an electron moving with 1% of the speed of light.
- Calculate the wavelength of an electron that has been accelerated in a particle accelerator through a potential difference of 100 million volts.

Given:

$$1 \text{ eV} = 1.6 \times 10^{-19} \text{ J}$$

$$m_e = 9.1 \times 10^{-31} \text{ kg}$$

$$h = 6.6 \times 10^{-34} \text{ Js}$$

$$c = 3 \times 10^8 \text{ ms}^{-1}$$

- The mass of an electron is $9.11 \times 10^{-31} \text{ kg}$. Calculate the uncertainty in its velocity if the uncertainty in its position is of the order of 1 \AA .
- An electron has a speed of 500 ms^{-1} with an uncertainty of 0.02%. What is the uncertainty in locating its position?

Given:

$$m_e = 9.1 \times 10^{-31} \text{ kg}$$

$$h = 6.6 \times 10^{-34} \text{ Js}$$

1. _____

ENGLISH CORE

A. Letter Writing

Attempt the following questions in about 120–150 words each:

- You are concerned about the increasing use of mobile phones among teenagers. Write a letter to the Editor of a national daily expressing your views and suggesting measures to control screen addiction among students.
- The roads in your locality are full of potholes, causing traffic jams and accidents during the rainy season. Write a letter to the Editor highlighting the problem and requesting immediate action from the concerned authorities.
- There has been a rise in plastic waste in your city. Write a letter to the Editor discussing the harmful effects of plastic pollution and suggesting practical solutions to reduce it.

B. Poster Making

Design attractive posters on the following topics:

1. Save Environment, Save Earth
2. Say No to Drugs
3. Importance of Regular Exercise and a Healthy Lifestyle

(Use suitable slogans, pictures, colours, and creative layouts.)

C. Advertisement Writing

Draft suitable advertisements for the following situations:

2. You want to sell your car. Draft a classified advertisement in not more than 50 words to be inserted in the classified columns, giving all the necessary details of the car. You are Sourabh.
 3. You are Ritwik Joshi, a Mechanical Engineer, looking for a job. Draft an advertisement for the classified columns. Invent the necessary details.
 4. Draft a classified advertisement in not more than 50 words on behalf of Ritesh, who is looking for suitable accommodation on rent for himself and his friends.
-

Literature Assignment

Chapter 1 – “The Portrait of a Lady”

Answer the following questions:

1. Describe the changing relationship between the author and his grandmother.
 2. Why did the grandmother not approve of the author’s English education?
 3. How did the grandmother react when the author went abroad for higher studies?
-

Poem – “A Photograph”

Answer the following questions:

1. What does the photograph convey about the poet’s mother and her childhood?
 2. Explain the line: “Both wry with the laboured ease of loss.”
 3. How does the poem explore the themes of time and memory?
-

Creative Project: Brochure on a Renowned Poet

Design an attractive and informative brochure on any one renowned poet of your choice. The brochure should reflect your creativity, research skills, and understanding of the poet’s life and literary contributions.

Your brochure must include the following details:

- Introduction to the Poet
 - Childhood and Early Life
 - Family Background
 - Lifestyle and Personality
 - Literary Works
 - Awards and Achievements
 - Interesting Facts
 - Favourite Poem Section
 - Include one favourite short poem/extract by the poet.
-

Visual Presentation

- The brochure must be a three-fold (tri-fold) brochure with proper headings and sections.
- Use relevant pictures, illustrations, quotations, and creative layouts.
- It should be handmade.

Students may choose poets from the following list:

1. Pablo Neruda
2. John Keats
3. Robert Frost

4. Adrienne Rich
 5. Ted Hughes
-

Instructions

- Complete the work neatly in your English notebook.
- Maintain proper presentation and handwriting.
- Submit the holiday homework after the vacations.

“Learning gives creativity, creativity leads to thinking, thinking provides knowledge, and knowledge makes you great.” — A. P. J. Abdul Kalam

MATHS

THE FILE WILL BE SHARED SEPRATELY

Physical Education

Practical File

1. Olympics

Prepare detailed notes with proper explanation and photos on the following topics:

- * Ancient Olympics
- * Modern Olympics
- * Olympic Oath
- * Olympic Flag
- * Olympic Motto and Maxim

* IOC (International Olympic Committee)

* IOA (Indian Olympic Association)

Instructions for Topic 1

* Paste coloured photos related to Olympics.

* Draw and label the Olympic Flag neatly.

* Explain each topic in proper detail.

* Mention important facts, history and functions.

2. Yoga

Eight Elements of Yoga (Ashtanga Yoga)

Write detailed explanations of the following eight elements:

1. Yama

2. Niyama

3. Asana

4. Pranayama

5. Pratyahara

6. Dharana

7. Dhyana

8. Samadhi

Instructions for Topic 2

- * Explain each element with suitable examples.
- * Paste yoga-related pictures.
- * Use proper headings and subheadings.

3. Volleyball Game

Prepare complete details about Volleyball including:

- * Introduction of the Game
- * History of Volleyball
- * Labelled Diagram of Volleyball Court
- * Equipment Used
- * Rules and Regulations
- * Terminologies
- * Fundamental Skills
 - * Service
 - * Passing
 - * Setting
 - * Spiking
 - * Blocking

Instructions for Topic 3

- * Draw proper labelled diagrams of the court and equipment.
- * Paste volleyball-related photos neatly.
- * Write all rules and skills clearly.

General Instructions

- * Use any Physical Education Practical File.
- * Cover Colour: White
- * All diagrams should be properly labelled.
- * Paste all photos neatly and properly.
- * Maintain neat handwriting and clean presentation.
- * Use blue/black pen for writing and coloured pencils for diagrams.

Computer

List of Programs

1. WAP to check the number/year entered by the user is : (any one) (odd or even) / (negative or positive) / (leap year or non leap year).
2. WAP to print the table of the number entered by the user.
3. WAP to print the factorial of the number entered by the user.
4. WAP to get the principle, rate, time from the user and calculate the S.I.
5. WAP to get marks in three subjects from the user and display the total and %.
6. WAP to check the largest number out of 3 unique numbers entered by the user.
7. WAP to check if the character entered by the user is a vowel or consonant.
8. WAP to make a Calculator having following options:
 - a. Add
 - b. Subtract
 - c. Multiply
 - d. Exit
9. WAP to find the area of the following according to the user's choice:
 - a. Area of Circle
 - b. Area of Rectangle
 - c. Area of Square
 - d. Exit
10. WAP to print the reverse counting from 100 to 1
11. WAP to print the Sum of first 5 natural numbers.
12. WAP to print the Multiplication of first 5 natural numbers.
13. WAP to print the Even numbers from 1 to 100
14. WAP to print the commission according to the sales entered by the salesman on the basis of the following slab:

<u>Sales</u>	<u>Commission</u>
0-50	No commission
51-100	10%
101-200	20%
Above 200	30%

NOTE: CALCULATE THE COMMISSION

15. WAP to print the Grade according to the percentage or the marks entered by the user on the basis of the following slab:

<u>Percentage</u>	<u>Grade</u>
0-32	'F'
33-50	'C'
51-70	'B'
71-100	'A'

HUMANITIES

ENGLISH CORE

A. Letter Writing

Attempt the following questions in about 120–150 words each:

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ECONOMICS

Hello future Economists! Summer break is the perfect time to look at the world through the lens of an economic thinker. This homework is designed to help you observe how data and choices shape our lives. Enjoy the process of discovery!

Section 1: Fun Learning Activities

- **The Household Census:** Act as a Junior Statistician. Collect data from at least 10 households (friends/relatives/neighbours) regarding their favorite mode of transport and their monthly newspaper preference. Organize this raw data into a neat frequency distribution table.

Section 2: Practice Work

Microeconomics

Revise the chapter 1 and 2

Statistics for Economics

Revise Arithmetic Mean

and solve the given numericals.

- **Numerical Practice:** Solve

1 Over five days, the recorded high temperatures were 28°C, 31°C, 26°C, 29°C, and 31°C. What was the average temperature for the week?

2. A student scored 85, 92, 78, and 85 on four math quizzes. What is his mean score?

3 A batsman scored the following runs in six matches: 45, 0, 12, 108, 34, and 25. Calculate his mean score per match.

4. Find the missing frequency of the group 20 - 30 when the median is 28.

Class interval 0-10 10-20 20-30 30-40 40-50

Frequency 5 8 ? 16 6

(Ans 15)

5. Calculate mean from the following data

Marks	No.of students
-------	----------------

Less than 10	4
--------------	---

Less than 20	16
--------------	----

Less than 30	40
Less than 40	76
Less than 50	96
Less than 60	112
Less than 70	120
Less than 80	125

MICROECONOMICS

Answer the following questions:

Q1. Although water is useful, yet it is cheap. On the contrary, diamond is not much of use, still they are very expensive. Give an economic reason for this paradox.

Q2. Identify the following as Microeconomic study and Macroeconomic study:

- a) Production of a sugar mill
- b) Inflation rate
- c) Car industry
- d) Supply of Money
- e) Wage determination in a company
- f) Allocation of resources

Q3. Identify the following as Positive statements and Normative statements:

- a) People should save more for their future
- b) In India, pollution is increasing at an alarming rate
- c) The Government should impose heavy taxes on rich people
- d) Smoking should be discouraged in the world

- e) In India, tax rate slabs increase with increase in income
- f) Higher interest rates induces people to save more out of their income

Section 3: Creative Task

- **Economics Comic Strip:** Create a 4-panel comic strip or a digital poster illustrating the "Problem of What to Produce" in a hypothetical economy where resources are limited but wants are unlimited.
- **The Project File (on any one topic)**

Topic

1. Effect on PPC due to various government policy
2. Solar energy, a Cost effective comparison with conventional energy sources
3. e Rupee(e-₹)

Section 4: Real-Life Application

- **Opportunity Cost Analysis:** Imagine you have 4 hours of free time on a Sunday. List 3 ways you could spend it. Choose one and write down the "Opportunity Cost" of that decision (what you gave up).
-

Section 5: Presentation Instruction

- All work should be compiled in a **neatly decorated Project File**.
- Use **A4 size ruled sheets** for written work and **plain sheets** for diagrams/posters.
- Use different colored pens (Blue/Black) for headings and answers. Feel free to use highlighters for key economic terms.

Section 6: Submission Guidelines (IMPORTANT)

- **Submission Deadline:** The first Economics period after the school reopens.
- **Format:** Physical Project File (Hard Copy).
- **Cover Page:** Must include the School Name, Subject, Topic, Student Name, Class/Section, and Roll Number.
- **Neatness:** Work must be handwritten. Diagrams and tables must be drawn using a pencil and ruler.

हिंदी

- आप किशोरों के बीच मोबाइल फ़ोन के बढ़ते इस्तेमाल को लेकर चिंतित हैं। किसी राष्ट्रीय दैनिक समाचार पत्र के संपादक को एक पत्र लिखकर अपने विचार व्यक्त करें और छात्रों में 'स्क्रीन एडिक्शन' (स्क्रीन की लत) को नियंत्रित करने के उपाय सुझाएँ।
- आपके इलाके की सड़कें गड़कों से भरी हुई हैं, जिसके कारण बरसात के मौसम में ट्रैफिक जाम और दुर्घटनाएँ होती हैं। संपादक को एक पत्र लिखकर इस समस्या को उजागर करें और संबंधित अधिकारियों से तत्काल कार्रवाई करने का अनुरोध करें।
- आपके शहर में प्लास्टिक कचरे में वृद्धि हुई है। संपादक को एक पत्र लिखकर प्लास्टिक प्रदूषण के हानिकारक प्रभावों पर चर्चा करें और इसे कम करने के लिए व्यावहारिक समाधान सुझाएँ।
 - क्रिएटिव प्रोजेक्ट: एक मशहूर कवि पर ब्रोशर*
 - अपनी पसंद के किसी भी एक मशहूर कवि पर एक आकर्षक और जानकारी भरा ब्रोशर डिज़ाइन करें। ब्रोशर में आपकी क्रिएटिविटी, रिसर्च स्किल्स, और कवि के जीवन और साहित्यिक योगदान की आपकी समझ झलकनी चाहिए।
 - आपके ब्रोशर में ये डिटेल्स ज़रूर शामिल होनी चाहिए:
 - - कवि का परिचय
 - - बचपन और शुरुआती जीवन
 - - पारिवारिक पृष्ठभूमि
 - - जीवनशैली और व्यक्तित्व
 - - साहित्यिक रचनाएँ
 - - पुरस्कार और उपलब्धियाँ
 - - दिलचस्प बातें
 - - पसंदीदा कविता सेक्शन-
 - कवि की कोई एक पसंदीदा छोटी कविता/अंश शामिल करें।
 - *विजुअल प्रेजेंटेशन-*

- यह एक तीन-फोल्ड (ट्राइ-फोल्ड) ब्रोशर होना चाहिए, जिसमें सही हेडिंग्स और सेक्शंस हों। प्रासंगिक तस्वीरों, चित्रों, उद्धरणों और क्रिएटिव लेआउट्स का इस्तेमाल करें। यह हाथ से बना होना चाहिए।
- छात्र नीचे दी गई लिस्ट में से कवियों को चुन सकते हैं:
 - 1. मीरा बाई
 - 2. रामधारी सिंह दिनकर
 - 3. सुमित्रा नंदन पंत
 - 4. सूर्यकांत त्रिपाठी निराला
 - 5. महादेवी वर्मा

MATHS

THE FILE WILL BE SHARED SEPRATELY

Political Science

1. Read newspapers and collect information on the electoral system of West Bengal, Assam, Tamilnadu and Puducherry to make a report.

2. Make a collage or Chat on the following topics Roll No. wise

1.The Fundamental rights 1-10

2.Fundamental duties 11-20

3. Preamble 21-30

4. Directive Principle of State policy 31-40

5.Model of EVM machine and pledge for voters 41-44

3. Make puzzles on the names of Indian states and capitals and write the same in the notebook.

4 learn UT -1 Syllabus

Physical Education

Practical File

1. Olympics

Prepare detailed notes with proper explanation and photos on the following topics:

- * Ancient Olympics
- * Modern Olympics
- * Olympic Oath
- * Olympic Flag
- * Olympic Motto and Maxim
- * IOC (International Olympic Committee)
- * IOA (Indian Olympic Association)

Instructions for Topic 1

- * Paste coloured photos related to Olympics.
 - * Draw and label the Olympic Flag neatly.
 - * Explain each topic in proper detail.
 - * Mention important facts, history and functions.
-

2. Yoga

Eight Elements of Yoga (Ashtanga Yoga)

Write detailed explanations of the following eight elements:

1. Yama
2. Niyama
3. Asana
4. Pranayama
5. Pratyahara
6. Dharana
7. Dhyana
8. Samadhi

Instructions for Topic 2

- * Explain each element with suitable examples.
- * Paste yoga-related pictures.
- * Use proper headings and subheadings.

3. Volleyball Game

Prepare complete details about Volleyball including:

- * Introduction of the Game
- * History of Volleyball
- * Labelled Diagram of Volleyball Court
- * Equipment Used
- * Rules and Regulations

- * Terminologies
- * Fundamental Skills
 - * Service
 - * Passing
 - * Setting
 - * Spiking
 - * Blocking

Instructions for Topic 3

- * Draw proper labelled diagrams of the court and equipment.
- * Paste volleyball-related photos neatly.
- * Write all rules and skills clearly.

General Instructions

- * Use any Physical Education Practical File.
- * Cover Colour: White
- * All diagrams should be properly labelled.
- * Paste all photos neatly and properly.
- * Maintain neat handwriting and clean presentation.
- * Use blue/black pen for writing and coloured pencils for diagrams.

COMMERCE

ENGLISH CORE

A. Letter Writing

Attempt the following questions in about 120–150 words each:

7. You are concerned about the increasing use of mobile phones among teenagers. Write a letter to the Editor of a national daily expressing your views and suggesting measures to control screen addiction among students.
 8. The roads in your locality are full of potholes, causing traffic jams and accidents during the rainy season. Write a letter to the Editor highlighting the problem and requesting immediate action from the concerned authorities.
 9. There has been a rise in plastic waste in your city. Write a letter to the Editor discussing the harmful effects of plastic pollution and suggesting practical solutions to reduce it.
-

B. Poster Making

Design attractive posters on the following topics:

7. Save Environment, Save Earth
8. Say No to Drugs
9. Importance of Regular Exercise and a Healthy Lifestyle

(Use suitable slogans, pictures, colours, and creative layouts.)

C. Advertisement Writing

Draft suitable advertisements for the following situations:

8. You want to sell your car. Draft a classified advertisement in not more than 50 words to be inserted in the classified columns, giving all the necessary details of the car. You are Sourabh.
 9. You are Ritwik Joshi, a Mechanical Engineer, looking for a job. Draft an advertisement for the classified columns. Invent the necessary details.
-
10. Draft a classified advertisement in not more than 50 words on behalf of Ritesh, who is looking for suitable accommodation on rent for himself and his friends.
-

Literature Assignment

Chapter 1 – “The Portrait of a Lady”

Answer the following questions:

7. Describe the changing relationship between the author and his grandmother.
 8. Why did the grandmother not approve of the author’s English education?
 9. How did the grandmother react when the author went abroad for higher studies?
-

Poem – “A Photograph”

Answer the following questions:

7. What does the photograph convey about the poet’s mother and her childhood?
 8. Explain the line: “Both wry with the laboured ease of loss.”
 9. How does the poem explore the themes of time and memory?
-

Creative Project: Brochure on a Renowned Poet

Design an attractive and informative brochure on any one renowned poet of your choice. The brochure should reflect your creativity, research skills, and understanding of the poet's life and literary contributions.

Your brochure must include the following details:

- Introduction to the Poet
 - Childhood and Early Life
 - Family Background
 - Lifestyle and Personality
 - Literary Works
 - Awards and Achievements
 - Interesting Facts
 - Favourite Poem Section
 - Include one favourite short poem/extract by the poet.
-

Visual Presentation

- The brochure must be a three-fold (tri-fold) brochure with proper headings and sections.
- Use relevant pictures, illustrations, quotations, and creative layouts.
- It should be handmade.

Students may choose poets from the following list:

11. Pablo Neruda
 12. John Keats
 13. Robert Frost
 14. Adrienne Rich
 15. Ted Hughes
-

Instructions

- Complete the work neatly in your English notebook.
- Maintain proper presentation and handwriting.
- Submit the holiday homework after the vacations.

“Learning gives creativity, creativity leads to thinking, thinking provides knowledge, and knowledge makes you great.” — A. P. J. Abdul Kalam

ECONOMICS

Hello future Economists! Summer break is the perfect time to look at the world through the lens of an economic thinker. This homework is designed to help you observe how data and choices shape our lives. Enjoy the process of discovery!

Section 1: Fun Learning Activities

- **The Household Census:** Act as a Junior Statistician. Collect data from at least 10 households (friends/relatives/neighbours) regarding their favorite mode of transport and their monthly newspaper preference. Organize this raw data into a neat frequency distribution table.

Section 2: Practice Work

Microeconomics

Revise the chapter 1 and 2

Statistics for Economics

Revise Arithmetic Mean

and solve the given numericals.

- **Numerical Practice:** Solve

1 Over five days, the recorded high temperatures were 28°C, 31°C, 26°C, 29°C, and 31°C. What was the average temperature for the week?

2. A student scored 85, 92, 78, and 85 on four math quizzes. What is his mean score?

3 A batsman scored the following runs in six matches: 45, 0, 12, 108, 34, and 25. Calculate his mean score per match.

4. Find the missing frequency of the group 20 - 30 when the median is 28.

Class interval 0-10 10-20 20-30 30-40 40-50

Frequency 5 8 ? 16 6

(Ans 15)

5. Calculate mean from the following data

Marks	No.of students
Less than 10	4
Less than 20	16
Less than 30	40
Less than 40	76
Less than 50	96
Less than 60	112
Less than 70	120
Less than 80	125

MICROECONOMICS

Answer the following questions:

Q1. Although water is useful, yet it is cheap. On the contrary, diamond is not much of use, still they are very expensive. Give an economic reason for this paradox.

Q2. Identify the following as Microeconomic study and Macroeconomic study:

- a) Production of a sugar mill
- b) Inflation rate
- c) Car industry
- d) Supply of Money
- e) Wage determination in a company
- f) Allocation of resources

Q3. Identify the following as Positive statements and Normative statements:

- a) People should save more for their future
- b) In India, pollution is increasing at an alarming rate
- c) The Government should impose heavy taxes on rich people
- d) Smoking should be discouraged in the world
- e) In India, tax rate slabs increase with increase in income
- f) Higher interest rates induces people to save more out of their income

Section 3: Creative Task

- **Economics Comic Strip:** Create a 4-panel comic strip or a digital poster illustrating the "Problem of What to Produce" in a hypothetical economy where resources are limited but wants are unlimited.
- **The Project File (on any one topic)**

Topic

1. Effect on PPC due to various government policy
2. Solar energy, a Cost effective comparison with conventional energy sources
3. e Rupee(e-₹)

Section 4: Real-Life Application

- **Opportunity Cost Analysis:** Imagine you have 4 hours of free time on a Sunday. List 3 ways you could spend it. Choose one and write down the "Opportunity Cost" of that decision (what you gave up).

Section 5: Presentation Instruction

- All work should be compiled in a **neatly decorated Project File**.
- Use **A4 size ruled sheets** for written work and **plain sheets** for diagrams/posters.
- Use different colored pens (Blue/Black) for headings and answers. Feel free to use highlighters for key economic terms.

Section 6: Submission Guidelines (IMPORTANT)

- **Submission Deadline:** The first Economics period after the school reopens.
- **Format:** Physical Project File (Hard Copy).
- **Cover Page:** Must include the School Name, Subject, Topic , Student Name, Class/Section, and Roll Number.
- **Neatness:** Work must be handwritten. Diagrams and tables must be drawn using a pencil and ruler.

– Physical Education

Practical File

—

1. Olympics

Prepare detailed notes with proper explanation and photos on the following topics:

- * Ancient Olympics
- * Modern Olympics
- * Olympic Oath
- * Olympic Flag
- * Olympic Motto and Maxim
- * IOC (International Olympic Committee)
- * IOA (Indian Olympic Association)

Instructions for Topic 1

- * Paste coloured photos related to Olympics.
- * Draw and label the Olympic Flag neatly.
- * Explain each topic in proper detail.
- * Mention important facts, history and functions.

—

2. Yoga

Eight Elements of Yoga (Ashtanga Yoga)

Write detailed explanations of the following eight elements:

1. Yama
2. Niyama
3. Asana
4. Pranayama
5. Pratyahara
6. Dharana
7. Dhyana
8. Samadhi

Instructions for Topic 2

- * Explain each element with suitable examples.
 - * Paste yoga-related pictures.
 - * Use proper headings and subheadings.
-

3. Volleyball Game

Prepare complete details about Volleyball including:

- * Introduction of the Game
- * History of Volleyball
- * Labelled Diagram of Volleyball Court
- * Equipment Used
- * Rules and Regulations
- * Terminologies
- * Fundamental Skills
 - * Service
 - * Passing

- * Setting

- * Spiking

- * Blocking

Instructions for Topic 3

- * Draw proper labelled diagrams of the court and equipment.

- * Paste volleyball-related photos neatly.

- * Write all rules and skills clearly.

General Instructions

- * Use any Physical Education Practical File.

- * Cover Colour: White

- * All diagrams should be properly labelled.

- * Paste all photos neatly and properly.

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- * Use blue/black pen for writing and coloured pencils for diagrams.

Accountancy

- * Solve the assignment of chapter 1 to 3 and 6 in Accountancy register

- * Make a chart/poster on any one topic related to Accountancy for ALL

Business Studies

- A. Learn chapter 1 and 2 for unit test 1
- B. Make a project on any one topic
 - I) Impact of online business platforms on small traders
 - II) Role of startups in Indian economy.
- C. Survey- Based questions

These involve field work

- *Survey local shops and classify their business type.
- *Study customer satisfaction in a retail store.
- *Collect data on small businesses in your locality.

Computer

List of Programs

- 16. WAP to check the number/year entered by the user is : (any one)
(odd or even) / (negative or positive) / (leap year or non leap year).
- 17. WAP to print the table of the number entered by the user.
- 18. WAP to print the factorial of the number entered by the user.
- 19. WAP to get the principle, rate, time from the user and calculate the S.I.
- 20. WAP to get marks in three subjects from the user and display the total and %.

21. WAP to check the largest number out of 3 unique numbers entered by the user.
22. WAP to check if the character entered by the user is a vowel or consonant.
23. WAP to make a Calculator having following options:
 b. Add b. Subtract c. Multiply d. Exit
24. WAP to find the area of the following according to the user's choice:
 a. Area of Circle b. Area of Rectangle c. Area of Square
 d. Exit
25. WAP to print the reverse counting from 100 to 1
26. WAP to print the Sum of first 5 natural numbers.
27. WAP to print the Multiplication of first 5 natural numbers.
28. WAP to print the Even numbers from 1 to 100
29. WAP to print the commission according to the sales entered by the salesman on the basis of the following slab:

<u>Sales</u>	<u>Commission</u>
0-50	No commission
51-100	10%
101-200	20%
Above 200	30%

NOTE: CALCULATE THE COMMISSION

30. WAP to print the Grade according to the percentage or the marks entered by the user on the basis of the following slab:

<u>Percentag</u>	<u>Grade</u>

<u>e</u>	
0-32	'F'
33-50	'C'
51-70	'B'
71-100	'A'