

PURAMUFTI PUBLIC SCHOOL & COLLEGE

PRAYAGRAJ, PURAMUFTI

CLASS - 10 (E.M+H.M.)

SUBJECT:- HINDI

SUMMER VACATION HOME-WORK (2026-27)

हिन्दी गद्य साहित्य

1. जयशंकर प्रसाद का चित्र बनाकर उनका जीवन परिचय तथा रचनाएँ लिखिए। (पेज नं.-46)
2. गद्यांश पर आधारित प्रश्नों के उत्तर लिखिए।
संकेत:- रोहतास दुर्ग के प्रकोष्ठ में ----- कहाँ अन्त था।
(अ) उपर्युक्त गद्यांश का सन्दर्भ लिखिए।
(ब) ममता कौन थी? उसकी क्या स्थिति थी?
(स) गद्यांश के आधार पर संसार में सबसे निराश्रय प्राणी कौन हैं? (पेज नं.-52)

हिन्दी पद्य साहित्य

1. तुलसी दास का चित्र बनाकर उनका जीवन परिचय देते हुए रचनाएँ लिखिए। (पेज नं.-162)
2. हिन्दी पद्य साहित्य के विभिन्न कालों से सम्बन्धित शाखाएँ चार्ट पेपर पर दर्शाइए।
उदाहरण:- आदिकाल, भक्तिकाल, रीतिकाल और आधुनिक काल (पेज नं.-136)

खण्डकाव्य

1. अग्रपूजा खण्डकाव्य की कथावस्तु संक्षेप में लिखिए।
उदाहरण:- पूर्वाभास, समारम्भ, आयोजन (पेज नं.-317)

संस्कृत दिग्दर्शिका

1. 'वाराणसी' पाठ का हिन्दी में अनुवाद कीजिए।

व्याकरण

1. ग्राम विकास अधिकारी को मुहल्ले की सफाई हेतु प्रार्थना-पत्र लिखिए।
2. शब्द रचना के तत्व
(अ) दस विलोम शब्द लिखिए। (पेज नं.-107)
(ब) दस पर्यायवाची शब्द लिखिए।
(स) नीचे लिखे तद्भव शब्दों के तत्सम शब्द लिखिए।
जैसे:- आग- अग्नि
अँगूठा, गर्दन, परमोद, अँधेरा, अचरज, चाँदनी, तुरंत, चौराहा, घी, कलेस

Class 10th Assignment Assignment

SUBJECT – ENGLISH (Class 10th)

**PURAMUFTI PUBLIC SCHOOL AND COLLEGE,
PRAYAGRAJ**

Make a Creative Project File

Write the Central Idea of the following poems in 80–100 words each:

1. Dust of Snow
2. Fire and Ice
3. A Tiger in the Zoo

Draw or paste pictures related to the lessons and write five lines about each.

Make any ONE:

Mind Map

Flow Chart

Character Web

Topics:

- Nelson Mandela' s Struggl
- Lencho' s Faith in God
- Tricky' s Recovery Journey

Write any 10 inspirational quotations related to:

- Education
- Freedom
- Nature
- Courage
- Animals

Example:

> “Education is the most powerful weapon which you can use to change the world.” – Nelson Mandela

Grammar Section

Noun

Identify the Nouns and write their kinds:

1. Honesty is the best policy.
2. Ravi bought a new bicycle.
3. The crowd cheered loudly.
4. Gold is a precious metal.
5. Delhi is the capital of India.
6. Childhood is the happiest period of life.
7. The team won the match.
8. Riya loves music.
9. The teacher praised the students.
10. Wisdom comes with experience.

Pronoun

Identify the Pronouns and write their kinds:

1. She is my best friend.
2. They completed their work.
3. This is my notebook.
4. Someone is knocking at the door.
5. Each of the boys was present.
6. We should respect our elders.
7. Which is your pen?
8. Nobody helped him.
9. I can do it myself.
10. Those are beautiful flowers.

Tense

Change the following sentences as directed:

Present to Past Tense

1. He writes a letter.
2. They play cricket daily.
3. She sings beautifully.
4. I go to school regularly.
5. The sun rises in the east.

Past to Future Tense

6. He completed his homework.
7. They visited Agra.
8. She bought a new dress.
9. We enjoyed the picnic.
10. The teacher explained the lesson.

Letter Writing

Formal Letters

1. Write a letter to the Principal requesting extra English classes.
2. Write a letter to the Editor about the problem of pollution.
3. Write a letter to the Municipal Commissioner complaining about dirty roads in your locality.
4. Write a letter to the Principal requesting leave due to illness.
5. Write a letter to the Editor on the importance of cleanliness.

Informal Letters

1. Write a letter to your friend describing your summer vacation.
2. Write a letter to your younger brother advising him to study regularly.
3. Write a letter to your friend inviting him to your birthday party.
4. Write a letter to your cousin about the importance of exercise.
5. Write a letter to your friend describing Independence Day celebration in your school.

Essay Writing

Write an essay on any three topics:

1. Importance of Education
2. Save Environment Save Earth
3. Importance of Discipline

4. Role of Technology in Education
5. My Favourite Teacher
6. Importance of Trees
7. Value of Time
8. Online Education

Article Writing

Write articles on any two topics:

1. Social Media and Students
2. Road Safety Awareness
3. Water Conservation
4. Healthy Lifestyle
5. Importance of Reading Newspapers
6. Clean India Mission

Newspaper Work

Read an English newspaper daily and write:

20 difficult words

Their meanings

One sentence for each word

Suggested Newspapers:

The Hindu

The Times of India

Hindustan Times

Reading Work

Read any English story book or newspaper for 15 minutes daily

and write:

My Best Friend

Importance of Trees

My Favourite Teacher

My Aim in Life

Nature Observation Work

Observe nature around you and write five lines on:

Rainy Day

Trees

Birds

Morning Scene

Summer Season

Creative Poster Making

Make any one poster on:

Save Water

Clean India

Say No to Plastic

Importance of Education

Save Animals

Self-Reflection Writing

Write a short paragraph on:

What new things you learned during holidays

How you improved your English

Your favourite activity in this project work

Project Decoration

Make your project attractive by using:

Colored headings

Borders

Drawings

Pictures

Creative designs

Quotes

Best Wishes for Happy Holidays and Joyful Learning! ✨

Submitted To:

Suryansh Pandey Sir

- PURAMUFTI PUBLIC SCHOOL -

SUB: MATHS | CLASS 10 SUMMER VACATION HOME WORK

Chapter 1-4

CHAPTER 1: REAL NUMBERS (Real Numbers)

123
345

Q1. Use Euclidean Algorithm to find HCF and LCM of 56 and 404.

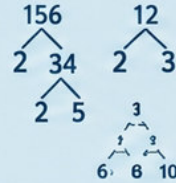
\sqrt{x}

Q2. Prove that $\sqrt{3}$ is an irrational number.

Q3. Use Euclidean Algorithm to find HCF of 125 and 175.



Q4. Find the sum of the first 156 terms of an AP.



CHAPTER 2: POLYNOMIALS (Polynomials)



$x - c$
 $c - c$



Q1. Find the zeroes and verify the relationship of zeroes and coefficients of $3x^2 + 7x + 10$.

$$3x^2 + 7x + 10$$

Q2. If one zero of a polynomial (zeroes of polynomial) is -3, find the other zero. (2 marks)

Q3. If $y = p(x)$ and $p(x)$ is zero of the polynomial, then find the number. (5 marks)

Q4. Find the value of $P(x) = x^3 - 3x^2 + x + 2$ at $x = 2$. Hence verify the zeroes theorem.

$$P = \sqrt{2}$$

CHAPTER 3: LINEAR EQUATIONS IN TWO VARIABLES (Linear Equations in Two Variables)



Q1. Graph the following equations (by substitution method, elimination method, cross-multiplication method):
 $x + y = 5, 2x - 3y = 4$



Q2. From the following pair of linear equations, identify the pair which has infinitely many solutions. (Word Problems)

$2 = 2$
 $x = 2$
 $x = y$

Q3. Solve graphically: $(x - y + 1 = 0 \text{ and } 3x + 2y - 12 = 0)$

$1 : 0$
 $3 = 10$

CHAPTER 4: QUADRATIC EQUATIONS (Quadratic Equations)

$$y = \frac{1 - \sqrt{a}}{2a}$$

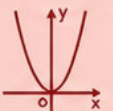


Q1. Find the discriminant of the quadratic equation $2x^2 - 3x + 5 = 0$ and find the nature of roots.

Q2. Use Shreedharacharya Formula to solve the quadratic equation: $(x^2 - 5x + 6 = 0)$

Q3. Word Problem: (Age, Price, Two Consecutive Numbers)

Q4. Find the quadratic equation whose sum of roots is 8 and product of roots is 0.



PROJECT WORK (Project Work)

- 1. Prepare a project file (on any one of the following topics) in a creative manner.

1. History of Mathematics (Ancient India and Other Civilizations)
2. Quadratic Equations in Daily Life
3. Mensuration
4. Applications and Uses of Statistics

BEST WISHES!

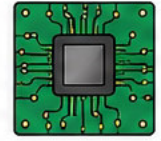
Complete all the work sincerely and on time.



PURAMUFTI PUBLIC SCHOOL

SUMMER VACATION HOMEWORK

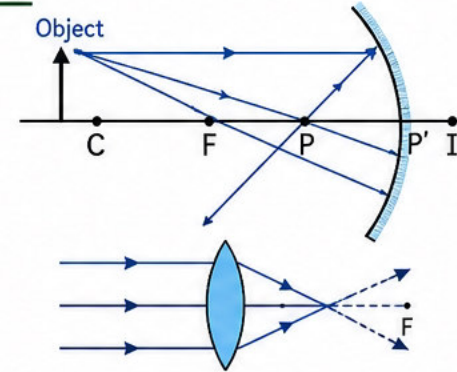
Class - 10 | English Medium | Subject - Physics



TOPIC : LIGHT & ELECTRICITY

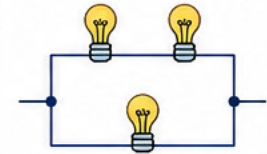
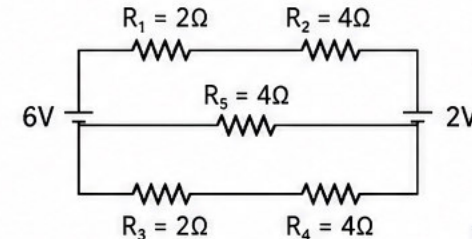
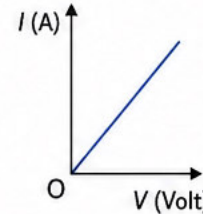
SECTION A : LIGHT - REFLECTION & REFRACTION

1. Why does light bend when traveling between media?
2. Discuss the nature of the image formed by a plane mirror.
3. Draw a labeled ray diagram for a concave mirror forming a real, diminished image.
4. Define the Power of a Lens. Calculate the focal length of a lens with power +2.0 D.
5. Illustrate the working principle of a simple microscope using a ray diagram.



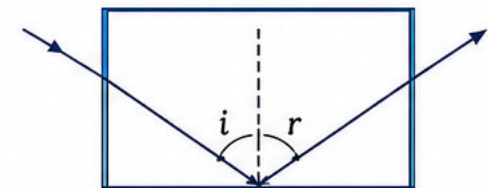
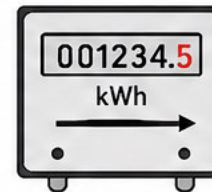
SECTION B : ELECTRICITY

1. Define Ohm's Law and plot the V-I graph for an ohmic conductor.
2. Explain why tungsten is chosen for electric bulb filaments.
3. Calculate the total resistance for the circuit shown below.
4. A 100W electric bulb is connected to a 220V mains supply. What current will be drawn?
5. List the advantages of connecting electrical appliances in parallel in a household circuit.



SECTION C : ACTIVITY-BASED LEARNING

- Observe the electricity meter in your home. Note the initial reading and the final reading after 7 days. Calculate the total energy consumed in kWh and then in Joules (J).
- Try constructing a simple 'Ray Box' to demonstrate the laws of reflection. Share a labeled diagram and your observations in a separate sheet.



To be completed during the break. Enjoy the learning!



Name : _____ Class : X Section : _____ Roll No. : _____ Date : _____

CHEMISTRY WORKSHEET

CHAPTER 1 – CHEMICAL REACTIONS AND EQUATIONS

A. VERY SHORT ANSWER TYPE QUESTIONS

(1 Mark Each)

1. Define a chemical reaction.
2. What is a chemical equation?
3. What are reactants?
4. What are products?
5. Write the name of the gas released when dilute HCl reacts with Zn.
6. What is meant by a balanced chemical equation?
7. Why should a chemical equation be balanced?
8. Define combination reaction with an example.
9. Define decomposition reaction with an example.
10. What happens when quicklime is added to water?

B. SHORT ANSWER TYPE QUESTIONS

(2 Marks Each)

1. Differentiate between physical change and chemical change.
2. What is a combination reaction? Write its general equation and one example.
3. What is a decomposition reaction? Write its general equation and one example.
4. What is a displacement reaction? Write its general equation and one example.
5. What is a double displacement reaction? Write its general equation and one example.
6. State law of conservation of mass.

C. TRUE / FALSE

(1 Mark Each)

1. A chemical reaction always involves a change in colour. ()
2. The mass of reactants is always equal to the mass of products. ()
3. In a combination reaction, two or more substances combine to form a single product. ()
4. In a decomposition reaction, two or more substances break down to form single product. ()
5. All displacement reactions are redox reactions. ()
6. Balancing a chemical equation does not change the reaction. ()

G. FILL IN THE BLANKS

(1 Mark Each)

1. The reactants are written on the _____ side of a chemical equation.
2. A balanced chemical equation satisfies the _____ of conservation of mass.
3. The gas released when marble chips react with dilute HCl is _____.
4. In a displacement reaction, a more reactive element displaces a _____ reactive element.
5. _____ is a combination of two or more substances.
6. Water is formed when hydrogen gas burns in _____.

I. NUMERICAL QUESTIONS

(3 Marks Each)

1. Calculate the number of molecules in 9 g of water. (Molar mass of $H_2O = 18 \text{ g mol}^{-1}$, $N_A = 6.022 \times 10^{23} \text{ mol}^{-1}$)
2. Calculate the mass of CO_2 produced when 4 g of carbon is burnt in excess of oxygen.
 $C(s) + O_2(g) \rightarrow CO_2(g)$
 [Molar mass of $C = 12 \text{ g mol}^{-1}$, $CO_2 = 44 \text{ g mol}^{-1}$]
3. A student took 2.4 g of magnesium ribbon and burnt it in air. If the product formed was magnesium oxide (MgO), calculate the mass of MgO formed.
 $2Mg(s) + O_2(g) \rightarrow 2MgO(s)$
 [Molar mass of $Mg = 24 \text{ g mol}^{-1}$, $MgO = 40 \text{ g mol}^{-1}$]

K. PROJECT WORK (To be done in a file / A4 Sheet)

Prepare a project on the topic "Chemical Reactions in Daily Life".

Include the following points:

- Introduction
- Different types of chemical reactions with examples from daily life
- Balanced chemical equations
- Importance of these reactions
- Real life applications
- Conclusion
- Bibliography



INSTRUCTIONS:

- Attempt all sections.
- Write neatly and clearly.
- Use diagrams wherever required.
- Project work will be assessed separately.



LEARNING OUTCOMES:

- Understand the concept of chemical reactions and their types.
- Balance chemical equations and understand the law of conservation of mass.
- Understand chemical bonding and its importance.
- Apply knowledge to real-life situations.

"The beauty of science is that it never stops asking questions."

D. LONG ANSWER TYPE QUESTIONS

(3 Marks Each)

1. Explain what is meant by a chemical reaction. Describe the characteristics of a chemical reaction with examples.
2. Explain the following types of chemical reactions with one example each:
 - (i) Combination reaction
 - (ii) Decomposition reaction
 - (iii) Displacement reaction
 - (iv) Double displacement reaction
3. Explain the steps involved in balancing a chemical equation.
4. Why is respiration considered a chemical reaction? Explain with example.
5. What is the importance of balancing chemical equations? Explain with suitable examples.

E. HOTS (HIGHER ORDER THINKING SKILLS) QUESTIONS

(4 Marks Each)

1. A metal 'X' on reacting with dilute hydrochloric acid gives a gas that burns with a 'pop' sound. Identify the metal and write the balanced chemical equation for the reaction.
2. A student writes the word equation as:
 Sodium + Water \rightarrow Sodium hydroxide + Hydrogen
 He balances it as: $2Na + 2H_2O \rightarrow 2NaOH + 2H_2$
 Is the equation correct? Justify your answer.
3. Why do we balance chemical equations instead of balancing atoms in the reactants and products separately?
4. Can you think of a reaction which is both a combination and exothermic reaction? Justify your answer with an example.
5. Why is thermal decomposition of calcium carbonate an important reaction in many industries?

F. CHEMICAL BONDING QUESTIONS

(3 Marks Each)

1. Define chemical bond. Why do atoms form chemical bonds?
2. What are the types of chemical bonds? Explain ionic and covalent bond with the help of one example each.
3. Draw the electron dot structure of the following compounds:
 - (i) NaCl
 - (ii) H_2
 - (iii) CaCl₂

H. MATCH THE FOLLOWING

(1 Mark Each)

Column A	Column B
1. Combination reaction	(a) $AB + CD \rightarrow AD + CB$
2. Decomposition reaction	(b) $A + BC \rightarrow AC + B$
3. Displacement reaction	(c) $AB \rightarrow A + B$
4. Double displacement reaction	(d) $A + B \rightarrow AB$

(Write the correct option e.g. 1 – (d))

J. THEORY BASED / CASE BASED QUESTIONS

(4 Marks Each)

Read the following passage and answer the questions that follow:

A student added zinc granules to a solution of copper sulphate. After some time, he observed that the blue colour of the solution fades and a reddish-brown deposit is formed on the zinc granules.

1. What type of reaction is this?
2. Write the balanced chemical equation for the reaction.
3. Identify the reactants and products.
4. Why does the blue colour of the solution fade?

PURAMUFTI PUBLIC SCHOOL

ESTD. [appropriate year, e.g., 2005]

SUMMER VACATION HOMEWORK

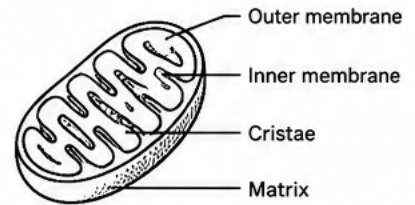
CLASS 9 - ENGLISH MEDIUM

SUBJECT: BIOLOGY

SECTION A: DIAGRAM & VISUALS

Draw the following prompts:

- Draw Plant Cell
- Draw Animal Cell
- Draw Mitochondria



SECTION B: CONCEPTUAL QUESTIONS

- What function does the cell discover?
- What discovers osmosis?
- How many immovable lysosomes?
- What is the function of DNA?

SECTION C: OBSERVATIONAL EXPERIMENT

Add your experiment.

1. What are all cell organelles? List and briefly define the main function of each. Then, conduct the raisin and salt water experiment and record results.

SECTION D: ORGANELLE FUNCTION TABLE

Complete the organelle function table:

Organelle	Plant Cell	Animal Cell	Function



PURAMUFTI PUBLIC SCHOOL AND COLLEGE

PURAMUFTI PRAYAGRAJ

SUMMER VACATION WORKSHEET



Name : _____ Class : _____ Section : _____ Roll No. : _____ Date : _____



UNIT – I GEOGRAPHY



Ch – 1 RESOURCES AND DEVELOPMENT



Q1. Reading mains points of this chapter

- > Resources
 - Types of resources.
 - Classification of resources.
 - Development of resources.
- > Land resources
 - Land use pattern in India
 - Land utilisation
 - Land degradation and conservation measures.
- > Soil as Resources
 - Classification of soils
 - Soil Erosion and Soil conservation



Q2. Explain the utility of two public facilities available in India.



Q3. “Consequences of environmental degradation do not respect national or state boundaries”. Justify the statement.



UNIT – II ECONOMICS

Ch – 1 DEVELOPMENT



Q1. Reading mains points of this chapter

- Meaning of development
- Different people and different goals
- Comparison of countries or states
 - > Comparison through National Income
 - > Comparison through per capital income
- Income and other criteria
- Public facilities



Q2. Explain the utility of two public facilities available in India.



Q3. “Consequences of environmental degradation do not respect national or state boundaries”. Justify the statement.



Q2. Reading points of this chapter

- Biodiversity
- Flora and fauna in India
- Community and conservation



Q3. MAP BASED QUESTION

- (A) Mark the following sites/places in the given map of India :
- (a) Buxa Tiger Reserve
 - (b) The state where Himalayan view is found.
 - (c) Silent Valley
 - (d) Periyar Tiger Reserve
 - (e) Sariska Tiger Reserve
 - (f) Nagarjuna Sagar – Srisailem Tiger Reserve



PURAMUFTI PUBLIC SCHOOL & COLLEGE

PRAYAGRAJ, PURAMUFTI

CLASS - 9,10TH (E.M)

SUBJECT:- ART

SUMMER VACATION HOME-WORK (2026-27)

Question-1 What is the use of art in human life? Write.

Question-2 What is a photograph.

Question 3: What is a graph? How many types are these?

Q.4 Make a poster on one of them.

- 1. Have mercy on the living.**
- 2. Environmental pollution.**
- 3. Women empowerment.**
- 4. Draw a drawing based on Indian flowers.**