



GREEN FIELD SCHOOL, SAHARSA

HOLIDAY ASSIGNMENT

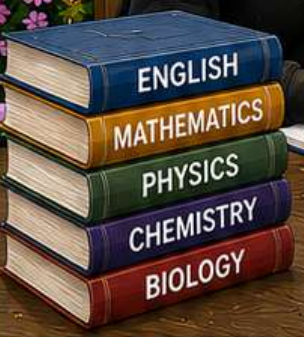


2026-27

CLASS - TEN

- PLAN ✓
- PREPARE ✓
- PRACTICE ✓
- SUCCEED ✓

- FOCUS
- PLAN
- STUDY
- ACHIEVE
- SUCCEED



STUDY PLAN

- ✓ Set Goals ✓
- ✓ Make a Timetable ✓
- ✓ Study Regularly ✓
- ✓ Revise & Practice ✓
- ✓ Stay Confident ✓



Dear Students,

Summer vacation is a much-awaited time for all of you – a season of fun, relaxation, and renewal. It is also a wonderful opportunity to grow in many ways beyond academics.

While you enjoy your holidays, I encourage you to take care of a few important things:

- ◆ **Help your parents with household work.** Small contributions make a big difference at home.
- ◆ **Spend quality time with your grandparents.** Listen to their stories, learn from their experiences, and make beautiful memories that eventually make you a better human being.
- ◆ **Become more self-reliant.** Start by washing your plate after meals and taking care of your personal clothes. Little steps towards independence build great character.
- ◆ **Focus on your academics.** Revise your lessons regularly and complete your holiday homework sincerely. A little effort every day will help you stay confident and ready for the next term.

Dear students, remember that holidays are not just a break from school; they are a chance to become better, stronger and wiser self.

Wishing you all a safe, happy, and fruitful vacation!



STUDENT'S NAME: _____

FATHER'S NAME: _____

MOTHER'S NAME: _____

ROLL NUMBER: _____ SECTION: _____ STUDENT'S ID: _____



ENGLISH



- 1 Write an essay on 'Role of Students in Building a Better Nation'.
- 2 Imagine you are the tiger from A Tiger in the Zoo. Write a diary entry expressing your feelings about captivity and your desire for freedom.
- 3 Write a letter from the young seagull (His First Flight) to the tiger, advising him on how to overcome fear and find inner freedom.
- 4 Write a short script with a zoo keeper, a tiger, and a wildlife activities discussing whether animals should be kept in captivity.
- 5 What lessons about fear, courage, and freedom do we learn from the tiger, the seagull, and the pilot?
- 6 Write a short story on 'My First Experience of Courage'.
- 7 Design a poster on 'Say No to Captivity' with a slogan and drawing.
- 8 Imagine you are the pilot from The Black Aero plane. Write a diary entry about your experience in the storm.
- 9 'Freedom is a state of mind.' Compare the tiger and the seagull. Who is truly free and why?
- 10 'Zoos are necessary for conservation of wild animals.' Write arguments for or against.
- 11 'Fear disappears when we take the first step.' Explain with reference to the seagull and the pilot.
- 12 To do analytical paragraph from practice exercise 1 to 5.
- 13 Solve whole exercises from **FIRST FLIGHT** (English Book) – Chapter 1 and 2
- 14 Solve whole exercises from **FOOT PRINT WITHOUT FEET** (English Book) – Chapter 1, 2, 3 and 4.



SCIENCE



CHEMISTRY ASSIGNMENT

- 1 Show in Chart/A4 size paper
 - (a) Identify the nature of any five food items (fruit/Vegetable) with the help of natural indicators like turmeric or china rose.
 - (b) Write 5 acids and bases and show their neutralization reaction. Identify the nature of salt formed.
- 2 Write twenty balanced chemical equation on A4 size chart paper.
- 3 Silver bromide on exposure to sunlight decomposes into silver and bromine.
- 4 Sodium metal reacts with water to form sodium hydroxide and hydrogen gas.



STUDY WELL, STAY CURIOUS
AND KEEP LEARNING!





SCIENCE



CHEMISTRY ASSIGNMENT

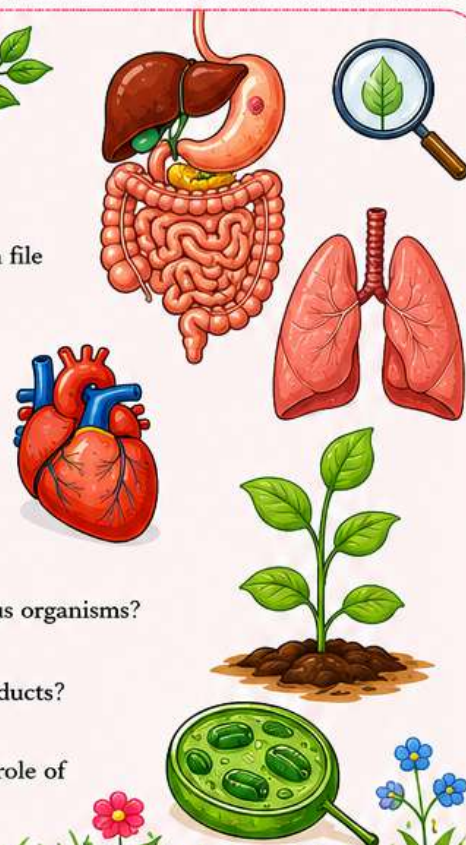


- 5 Solution of barium chloride and sodium sulphate in water reacts to give insoluble barium sulphate and solution of sodium chloride.
- 6 Hydrogen gas combines with nitrogen to form ammonia.
- 7 Hydrogen sulphide gas burns in air to give water and sulphur dioxide.
- 8 Barium chloride reacts with ammonium sulphate to give ammonium chloride and precipitate of barium sulphate.
- 9 Potassium metal reacts with water give potassium hydroxide and hydrogen gas.
- 10 Calcium hydroxide + carbon dioxide \rightarrow calcium carbonate + water
- 11 Zinc + silver nitrate \rightarrow zinc nitrate + silver
- 12 Potassium bromide + barium iodide \rightarrow potassium iodide + barium bromide
- 13 Sodium carbonate on reaction with hydrochloric acid gives sodium chloride and sodium hydrogen carbonate.
- 14 Copper sulphate on treatment with potassium iodide precipitates cuprous iodide, liberates iodine gas and also forms potassium sulphate.
- 15 Write activities 1.1 to 1.3 from chapter-1 from NCERT (With chemical equation)
- 16 Solve whole exercise from chapter 1 chemistry chemical reaction and equation from NCERT & S.Chand.



BIOLOGY

1. Prepare :
 - a. Model or Chart of Human Digestive System / herbarium file of medicinal plants(at least 5 species)
 - b. Model or Chart of Human Circulatory System / seed germination observation file
2. Draw the label picture of following
 - (a) Digestive system of human
 - (b) Lungs of human
 - (c) Human heart
 - (d) Mode of Asexual reproduction
 - (e) Female and Male reproductive system
3. Why is diffusion insufficient to meet the oxygen requirements of multi cellular organisms like humans?
4. What are the different ways in which glucose is oxidized to provide energy in various organisms?
5. Chloroplasts are called as energy convertors, why?
6. What are the necessary conditions for autotrophic nutrition and what are its byproducts?
7. What is the effect of light and temperature on photosynthesis?
8. List the three events that occur during the process of photosynthesis. Explain the role of stomata in this process.

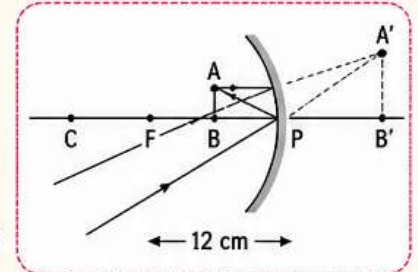




PHYSICS ASSIGNMENT

- Describe an experiment to show that "Sunlight is essential for photosynthesis".
- State the basic difference between the process of respiration and photosynthesis.

Physics Assignment



- Draw ray diagrams to illustrate the formation of images by:
 - Plane mirrors
 - Concave mirrors
 - Convex mirrors
- For what position of an object a concave mirror forms a real image equal in size?
- List two characteristics of image formed by a plane mirror?
- It is desired to obtain an erect image of an object using a concave mirror of focal length 12 cm.
 - What should be the range of the object distance in the above case
 - Will the image be smaller or larger than the object. Draw a ray diagram to show the image formation in this case.
 - Where will be the image of this object be if it is placed 24 cm and front of the mirror?
- What is the unit of refractive index? The refractive index of flint glass is 1.65 and that for alcohol is 1.36 with respect to air. In which medium speed of light will be more? Why?
- Name the type of mirror used in the following situation and Support your answer with reason.
 - Headlight of a car.
 - Rear view mirror of a vehicle.
 - Solar furnace.



- A Pencil when dipped in water in a glass tumbler appears to be bent and the surface of air and water. Will the pencil appear to be bent to the same extent if instead of water we use liquids like kerosene or turpentine. Support your answer with the reason.
- Solve whole exercise from chapter light from NCERT & S. Chand completely.



SOCIAL STUDIES



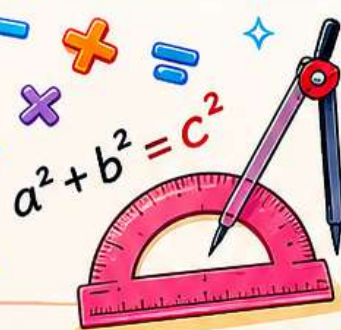
- Write about Democracy, Federalism, and the Indian Constitution.
- Draw the political map of India and mark states and capitals.
- Prepare a handwritten project (8–10 pages) on any one topic:
 - ★ The French Revolution.
 - ★ Print Culture and the Modern World
- Make a colourful timeline showing important events from: "The Rise of Nationalism in Europe"
- Case Study.** Write a short case study on: "How can we conserve water at home and school?"
- Prepare a poster on:** "Save Environment, Save Future" Use slogans, drawings, and creative ideas.
- Democratic Awareness**
Prepare a chart on: "Features of Democracy"
Include: Meaning, Features, Merits, Challenges

SAVE EARTH





MATHS



NEW

1 Express 0.123123... as a fraction in simplest form.

NEW

2 Find the HCF and LCM of 36, 48 and 60 using prime factorisation method.



3 Show that the following numbers are irrational:

(i) $\sqrt{3}$ (ii) $3 - 7\sqrt{5}$

4 In a school, the duration of a period in junior section is 40 minutes and in senior section is 1 hour. If the first bell for each section ring at 9:00 a.m., when will the two bells ring together again?

5 Explain why $(17 \times 11 \times 2 + 17 \times 11 \times 5)$ is a composite number?

6 Find the zeros of polynomial $x^2 - 2x - 8$ and verify the relationship between the zeros and their coefficients.

7 Given that $\sin(A + B) = \sin A \cos B + \cos A \sin B$, find the value of $\sin 75^\circ$

8 If $\tan \theta + \sin \theta = m$ and $\tan \theta - \sin \theta = n$, prove that $m^2 - n^2 = 4\sqrt{mn}$

9 Find whether the following pair of linear equations is consistent or inconsistent:
 $3x + 2y = 8$; $6x - 4y = 9$

10 Solve the following pair of linear equations for x and y:

(i) $141x + 93y = 189$; $93x + 141y = 45$

(ii) $(a - b)x + (a + b)y = a^2 - 2ab - b^2$; $(a + b)(x + y) = a^2 + b^2$

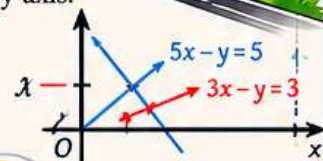
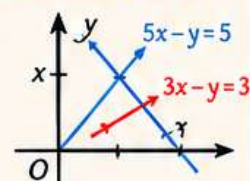
11 A train covered a certain distance at a uniform speed. If the train would have been 10 km/h faster, it would have taken 2 hours less than the scheduled time. And, if the train were slower by 10 km/h; it would have taken 3 hours more than the scheduled time. Find the distance covered by the train.

12 The present age difference between father and son is 14 years. The ratio of their age will be 4:3 after 11 years. How old is son now?

13 Places A and B are 100 km apart on a highway. One car starts from A and another from B at the same time. If the cars travel in the same direction at different speeds, they meet in 5 hours. If they travel towards each other, they meet in 1 hour. What are the speeds of the two cars?

14 Draw the graphs of the equations $5x - y = 5$ and $3x - y = 3$. Determine the co-ordinates of the vertices and area of the triangle formed by these lines and the y axis.

15 Solve the chapters **REAL NUMBER, POLYNOMIAL, QUADRATIC EQUATIONS, LINEAR EQUATION IN TWO VARIABLES & TRIGONOMETRY** from NCERT & R.S Aggarwal



“ Prepare a fair copy of all the work covered before the summer vacation in all subjects (Maths, English, English Grammar, Science, Social), complete it neatly, and learn/revise it thoroughly. ”





SPECIAL INSTRUCTION



- 1 Do all the given Home Work in A4 Size paper and School Notebook.
- 2 Put the completed Home Work in a Clip File.
- 3 Submit all your Home Work till 11th July 2026
- 4 Submission of Home Work is not allowed after 11th July 2026. In case of not submitting the Home Work till due date, 50% of marks will be deducted from PTCA in Terminal Examinations.



FOR PARENTS



- 1 The school wants you to give good suggestions for the improvement of the student.
- 2 The school will remain closed for summer vacation from 15th June 2026 (Monday). The school will reopen on 6th July 2026 (Monday) as per usual timing of the school.
- 3 In case, parents face any problem, they can contact the class teacher.

★ TEACHER'S NAMES & CONTACT NUMBERS ★



- SHISHIR KUMAR THAKUR – 9430907907
- RAMAN KUMAR JHA – 7209117463

★ FOR ANY QUERIES, CONTACT ★

