



GREEN FIELD SCHOOL, SAHARSA

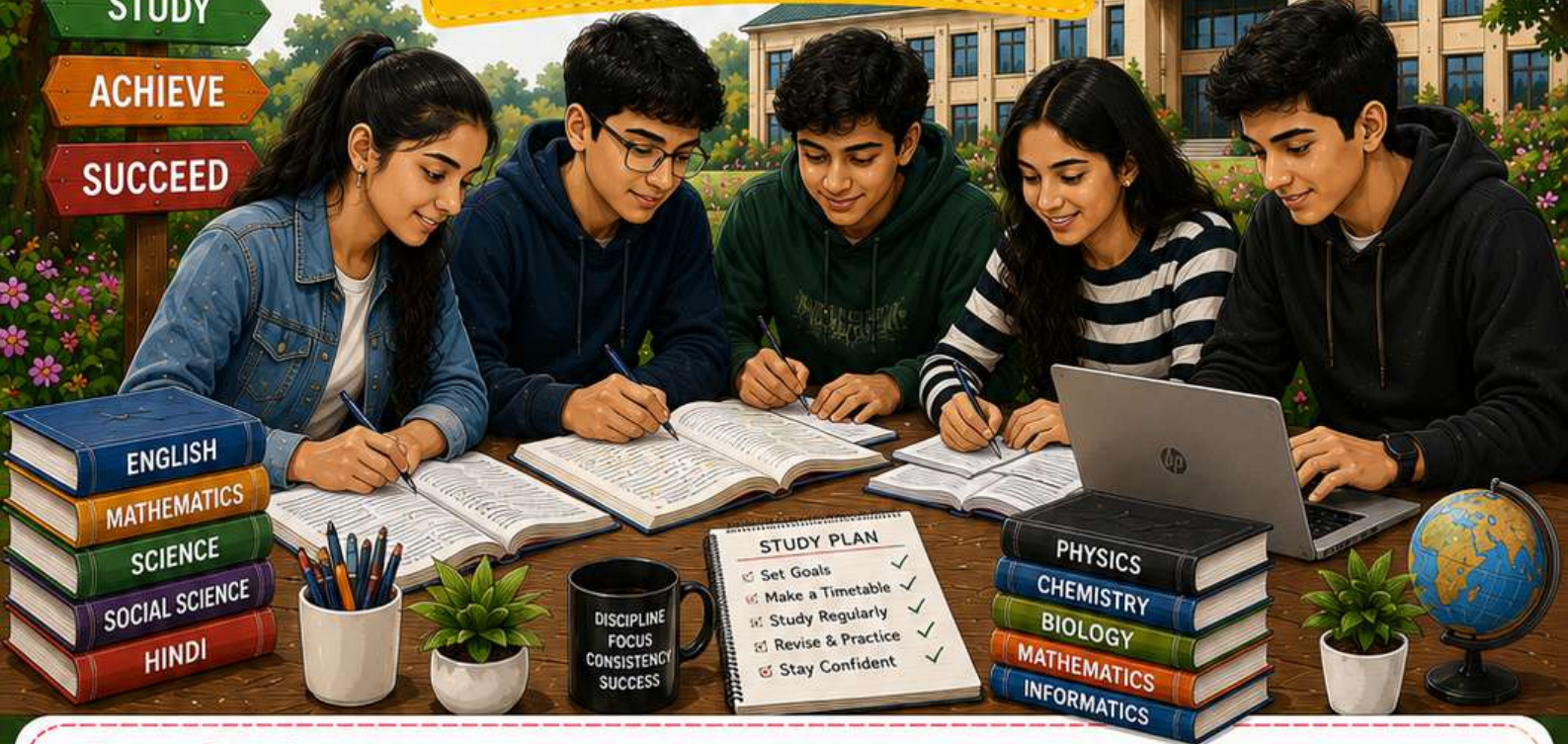
HOLIDAY ASSIGNMENT



2026-27

CLASS - NINE

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



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



- Write a self-composed poem on ANY 1 of the following – NATURE, FAITH, NEVER GIVE UP! Or WORLD OF MY IMAGINATION
- Write 15 quotes by famous personalities with their explanation in beautiful handwriting on coloured A4 papers. [Use creative presentation in calligraphy/borders and images]
- Read any one of the given novels The adventure of Tom Sawyer/Oliver Twist/ The invisible man/Pride and prejudice or The guide and write its review in about 100-120 words
- Write a descriptive paragraph [120-150 words] on any 1 of the following personalities [Biography]. A.P. J Abdul Kalaam, Virat Kohli, Raghav Chaddha, Ranbeer Singh
- Write 5 idioms, phrases and proverbs with their meanings and frame simple sentences of your own for 10 days per the given Letter A to J.
- Write a letter to the editors expressing concern over excessive mobile phone usage among teenagers and suggesting ways to control it.
- To practice exercise from Determiner and Modal Verb.
- To do Practice Exercise of Descriptive Paragraph 1 to 5.
- To do and remember all given questions in the exercise of chapter 1 and 2 from your literature book .
- Read chapter 1 , 2 , 3 and 4, underline the difficult words and write the meaning in your textbook



A B C



MATHEMATICS



- We know that Natural Numbers are closed under addition (the sum of any two natural numbers is always a natural number). Are they closed under subtraction? Provide a couple of examples to justify your answer
- Find the rational number x such that: $56(x + 35) = 56x + 12$
- Find three distinct rational numbers that lie strictly between $-1/2$ and $1/4$
- A tailor has $15\frac{3}{4}$ metres of fine silk. If making one kurta requires $2\frac{1}{4}$ metres of silk, exactly how many kurtas can he make?
- Convert 2.4537 into the form p/q .
- If $x = 2 + 3\sqrt{2}$ then find the value of $x + 14x$
- Are the points $M(-3, -4)$, $A(0, 0)$ and $G(6, 8)$ on the same straight line? Suggest a method to check this without plotting and joining the points
- Without performing division, determine whether the decimal expansion of $18/125$ is terminating or non terminating. If it terminates, state the number of decimal places.
- Plot point $M(6, -8)$ on the Cartesian plane. Construct a right-angled triangle OMP and find the lengths of the three sides.
- The following table shows the coordinates of points S , M and T . In each case, state whether M is the midpoint of segment ST . Justify your answer. When M is the mid-point of ST , can you find any connection between the coordinates of M , S and T ?



S	M	T	Is M the midpoint of ST? Yes or No	Reason for your answer
$(-3, 0)$	$(0, 0)$	$(3, 0)$		
$(2, 3)$	$(3, 4)$	$(4, 5)$		
$(0, 0)$	$(3, 5)$	$(6, 10)$		
$(-4, 7)$	$(0, -2)$	$(6, -3)$		

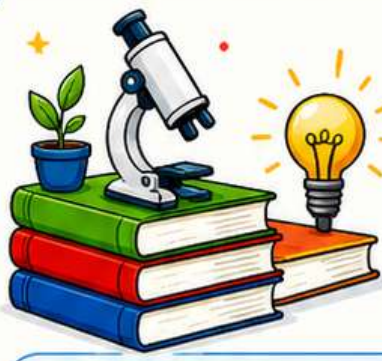
11. Determine rational numbers p and q if $7 + \sqrt{5} - 7 - \sqrt{5} - 7 - \sqrt{5} + 7 + \sqrt{5} = p - q\sqrt{5}$

12. ACTIVITY

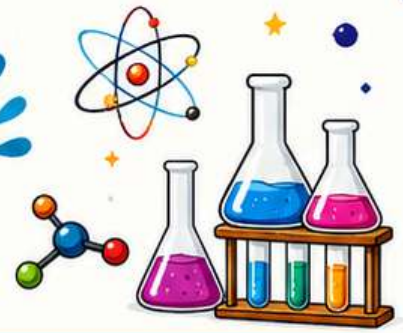
- To construct a square-root spiral.
- To represent some irrational numbers on the number line. (Represent $\sqrt{3}$, $\sqrt{5}$, $\sqrt{9.1}$ & $\sqrt{8.5}$ on number line.

13. Solve the chapters Number system, Polynomials, Identity and Lines and angles from R.S.AGARWAL & NCERT.





SCIENCE

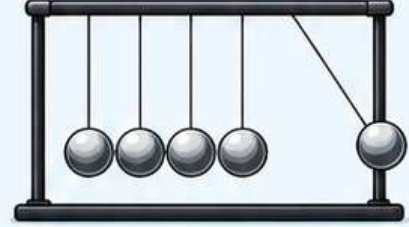


PHYSICS



Prepare a working model / Chart on:

- Newton's cradle
- Action – Reaction law



CHEMISTRY



Make a chart/A4 size paper on:

- Elements name till 20 which include Symbols (like 7N14), Atomic mass, Valency.
- Five different separation technique with diagram and specify what is the nature of solute and solvent in term of solubility, size and boiling point.



BIOLOGY

Make a chart/model on:

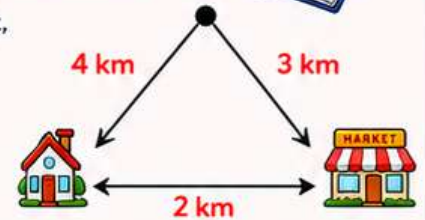
- Plant Cell and Animal Cell
- Showing mitosis and meiosis



* COMMON HOMEWORK (To be done in Fair notebooks)



- A boy starts from his house and travels 5 km to reach the market. After purchasing his book, he returns to his house. What is the magnitude of displacement of the boy?
- The figure given shows the path taken by a boy during a walk. Find the total distance covered by the boy.
- A body is moving along a circular path of radius R. What will be the distance and magnitude of Displacement of the body when it completes half-a-revolution?
- Two trains A and B cover 120 km and 180 km in 3 hours, and 4 hours respectively. Which is moving Faster, A or B? Solve it.
- A train moving with uniform speed covers a distance of 120 m in 2 s. Calculate the speed of the train and the time it will take to cover 240 m.
- Find the distance travelled by a body in 5 minutes if it travels with a uniform speed of 20 m/s.
- A body rises vertically up to height of 125 metres in 5 seconds and then returns back to the point of its throw. Find the total displacement and average velocity of the body.
- The maximum speed of a train is 90 km/h. It takes 10 hours to cover a distance of 900 km. Find the ratio of its average speed to maximum speed?
- A car start from rest and acquire a velocity of 54 km/h in 2 sec. Find a. acceleration b. Distance travelled by car (assume motion of car is uniform)?
- An object dropped from a cliff falls with a constant acceleration of 10 m/s^2 . Find its speed 5 s after it was dropped.



1. Explain what a solution is and identify its two main components with an example.
2. Define solubility and explain how temperature affects the solubility of solid solutes and gases in liquids.
3. Describe the Tyndall Effect and provide two everyday examples where this phenomenon can be observed.





4. What is the difference between a homogeneous mixture and a heterogeneous mixture? Give one example of each.
5. Explain the process of crystallization and mention its practical applications.
6. Compare and contrast solutions, colloids, and suspensions based on their particle size, visibility, settling behaviour, and the Tyndall Effect.
7. Analyze the three methods of expressing concentration of a solution, explaining when each method is most appropriately used with suitable examples.
8. Evaluate the importance of separation techniques in industrial processes by discussing distillation and coagulation with their practical applications.



Biology



1. A person with swollen gums rinses his mouth with lukewarm salt water and swelling of his gums decreases. Why?
2. Ritika observed onion peel cells in the lab and could view the cell wall, cytoplasm and nucleus clearly. Suddenly her friend spilled a few drops of salty water on the slide having onion peel cells. She observes some changes in the cells after sometime.
 - a. What changes would have been observed by Ritika?
 - b. Name the process that caused the changes in the cells.
 - c. Would there be similar changes observed, if she had prepared a slide of cheek cells?
3. If you are provided with some vegetables to cook, you generally add salt into the vegetables during the cooking process.
 - a. What happens to the vegetables after adding salt?
 - b. Which mechanism is responsible for the changes? Explain.
4. Why does the skin of your mother's fingers shrink when she washes clothes for a long time?
 - a. What is responsible for these changes?
 - b. Explain the process in brief.



SOCIAL SCIENCE



History-



- a. Development of human life from Palaeolithic Age to Modern Age -Timeline with Pictures
- b. Old trade route map with reference to silk route and land route with World map



Economics-



- a. Home budget for one month June 2026
Identify the reason for increase in budget.

Geography-



- a. Write about actions of Landslides and Dust
- b. Write about actions of Wind, River and Sea waves



Political Science-

Democracy is the best form of government. Points to mention-Meaning of Democracy, Features of Democracy, Types of Democracy, Other Forms of government, Challenges to democracy, Some examples of democratic countries.



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 ★

