



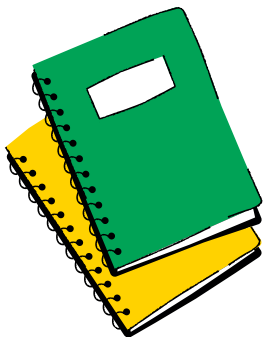
H.L. INTERNATIONAL SCHOOL

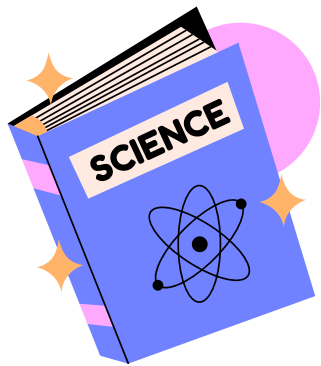


CLASS:-IX



**SUMMER BREAK
HOLIDAY
HOMEWORK**





Biology homework :



Construct a 3D model of plant cell or animal cell or any one cell organelles using clay ,thermocool or recycled material.

Chemistry Practical File



Prepare a separate Chemistry Practical File Write all experiments neatly in your own handwriting.

Experiment 1: Preparation of a True Solution, Suspension and Colloidal Solution

Aim: To prepare a true solution, suspension and colloidal solution and compare their properties.

Materials Required: Water, common salt, chalk powder, starch powder, beakers, glass rod.

Procedure:

1. Dissolve a small amount of salt in water to prepare a true solution.
2. Mix chalk powder with water to prepare a suspension.
3. Mix starch powder with water to prepare a colloidal solution.
4. Observe transparency and settling of particles.

Observation:

- * True solution is transparent.
- * Suspension is opaque and particles settle down.
- * Colloidal solution appears translucent and particles do not settle.

Result: Different mixtures show different properties based on particle size.

Precautions:

- * Use clean apparatus.
- * Stir mixtures properly.



Experiment 2: Separation of Components of a Mixture

Aim: To separate sand, common salt and ammonium chloride from a mixture.

Materials Required: Mixture, china dish, funnel, filter paper, beaker, burner.

Procedure:

1. Heat the mixture to sublime ammonium chloride.
2. Dissolve the remaining mixture in water.
3. Filter to separate sand.
4. Evaporate water to obtain salt.

Observation: All three components are obtained separately.

Result: Components of a mixture can be separated by physical methods.

Precautions: Handle hot apparatus carefully.

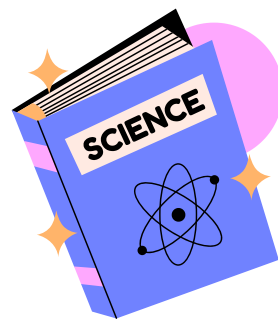
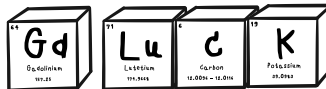
Experiment 3: Determination of Melting Point of Ice

Aim: To determine the melting point of ice.

Materials Required: Ice, beaker, thermometer.

Procedure:

1. Place crushed ice in a beaker.
2. Insert thermometer.
3. Record temperature during melting.



Observation: Temperature remains constant at 0°C during melting.

Result: Melting point of ice is 0°C .

Precautions: Thermometer bulb should not touch the beaker.

Experiment 4: Determination of Boiling Point of Water

Aim: To determine the boiling point of water.

Materials Required: Water, beaker, thermometer, burner.

Procedure:

1. Heat water in a beaker.
2. Record temperature when boiling starts.
3. Continue heating and note the temperature.

Observation: Temperature remains constant at 100°C .

Result: Boiling point of water is 100°C .

Precautions: Do not touch hot apparatus.



Experiment 5: Verification of the Law of Conservation of Mass

Aim: To verify the law of conservation of mass.

Materials Required: Barium chloride solution, sodium sulphate solution, flask, balance.

Procedure:

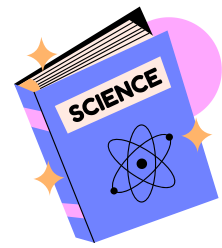
1. Weigh the flask containing reactants.
2. Mix the solutions.
3. Weigh again after the reaction.

Observation: Total mass remains unchanged.

Result: Mass is neither created nor destroyed during a chemical reaction.

Precautions: Avoid loss of material during the experiment.

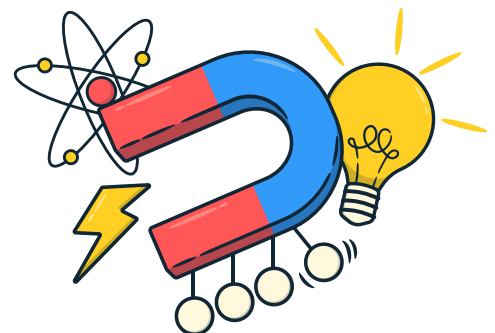
Physics



Chapter: Motion

Instructions: Solve the assignment in Physics Register.

1. What is meant by the statement 'Rest and motion are relative terms? Give example to show it.
2. Identify the following as scalar or vector quantities: - mass, velocity, speed, length, distance, displacement, temperature, force, weight, power, work and energy.
3. A body thrown vertically upwards reaches a maximum height 'h'. It then returns to ground. Calculate the distance travelled and the displacement.
4. The school of a boy from his home is 1 km to the east. When he reaches back home, he says that he had traveled 2 km distance but his displacement is zero. Justify your answer.
5. Under what condition, the average speed is equal to the magnitude of the average velocity.
6. Can the average speed of a moving body be zero?
7. Can the average velocity of a moving body be zero? State examples.
8. Can an object be accelerated if it is moving with constant speed? If yes, explain giving examples.
9. Name the 2 physical quantities which can be obtained from velocity-time graph.
10. An electric train is moving with a velocity of 120km/hr. how much distance will it cover in 30 sec?
11. What is the displacement and distance covered by the car which moves in a circular road of radius R when it covers half the circle?
12. What is the velocity vs time graph of an object when it moves with uniform positive acceleration?
13. What happens to acceleration when an object moves in a circle with uniform speed?
14. A car goes from point A to B and then come back from B to A. What is the displacement and average velocity?
15. A car has a uniform acceleration of 3.5m/s^2
. Calculate the distance travelled by the car after 10 seconds of start?
16. A car is travelling at a speed of 72km/h, the brakes are applied so as to produce a uniform acceleration of -1m/s^2
. Find the distance it travels after applying brakes so that it completely stops?
17. An object moves along a straight line with an acceleration of 1m/s^2
. If its initial speed is 10 m/s, find its speed after 5s?
18. A train accelerates from 36 km/h to 54 km/h in 10 sec.
(i) Acceleration
(ii) The distance travelled by car.



Social Studies



1. Make a project internal assessment marks

Topics :- From Ideas to Startups

: Dear students you need to be follow

The Step-by-Step Report Layout

Cover Page: Must include the Project Title, Student's Name, Roll Number, Class/Section, School Name, and the Academic Year.

Statement of Purpose / Objective: A short brief explaining why you chose this specific topic and what you aim to find out.

Certificate of Authenticity: A formal declaration signed by your Economics teacher and the external examiner stating that this is your original work.

Acknowledgment: Thanking your teacher, school principal, parents, and anyone else (like survey respondents) who helped you complete the project.

Table of Contents (Index): A neat list of headings, subheadings, and their corresponding page numbers.

Conclusion : Summarize the final results of your study. What did you discover?

Bibliography / References: List all the websites, books, newspapers, or journals you used to gather information.

2. Make a detailed project file on any one of the following topics ,not more than 10 pages :

- * Disaster management OR**
- * Major rivers valley civilization**



1. READING SECTION

Q1. Read any 1 novel/story book and write a book review in 150-200 words.

- Suggested books: Three Men in a Boat by Jerome K. Jerome, Gulliver's Travels, The Diary of a Young Girl by Anne Frank

- Include: Title, Author, Main characters, Summary, What you liked, Moral

Q2. Read the newspaper daily for 15 days. Cut 5 news items on education/environment and paste them. Write 2-3 lines on each about your opinion.

2. WRITING SECTION

Q3. Diary Entry: You visited an old age home during holidays. Write a diary entry in 120 words describing your experience and feelings.

Q4. Story Writing: Complete the story in 150-200 words:

"Riya was walking home when she saw a small puppy crying near a garbage bin..."

Q5. Letter: Write a letter to your friend describing how you spent your summer holidays. 120 words.

3. GRAMMAR SECTION

Q6. Do 10 sentences each of:

- Tenses: Present, Past, Future - mixed
- Subject-Verb Agreement
- Modals: can, could, may, might, must



Q7. Edit the paragraph. Find 5 errors of determiners, prepositions, tenses:

The boy play in a park. He see an old man which was sitting alone. A old man was sad because he have no friends.

Q8. Project Work: Make a project file on any 1 poet:

Robert Frost / Subramania Bharati / William Wordsworth

Include: Photo, Biography, Famous poems, Your favorite lines with reason

Q9. Art Integrated Activity: Draw a comic strip of 6-8 frames based on The Lost Child. Write dialogues.

5. SPEAKING & LISTENING

Q10. Prepare a 2-minute speech on: "Importance of Reading Books" or "How Technology Changed Our Lives".

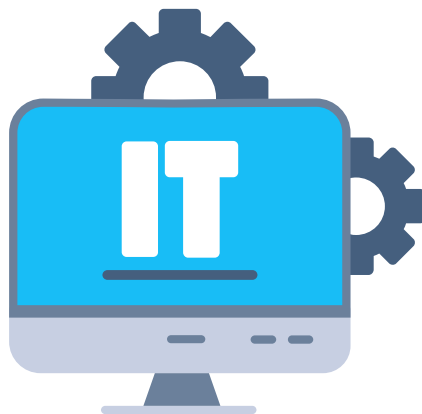
Instructions:

1. Do all work in a separate thin notebook.
2. Writing should be neat with headings.
3. Submit on first day after holidays.
4. For project, use A4 sheets and make it creative.

दिए गए सभी विषयों पर फाइल तैयार कीजिये।

- 1 - नई शिक्षा नीति के लाभ
- 2- साइबर सुरक्षा या आन लाइन शिक्षा
- 3- चंद्रयान 3
- 4- भारत के राष्ट्रीय और अंतर्राष्ट्रीय संबंध
- 5- भारतेन्दु हरिश्चन्द्र
- 6- मैथिली शरण गुप्त
- 7- सुमित्रानंदन पंत
- 8- हरिवंशराय बचचन

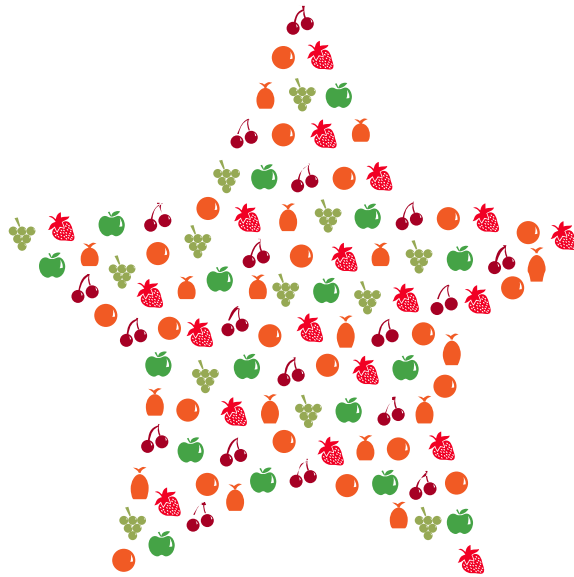
- Project file: prepare a project file on biography of any two famous mathematicians.



Students may choose one or more of the following cyber safety topics and create a poster/ pamphlet/ comic strip or quiz to raise awareness:

- a) Cyber bullying·**
- b) Password Security·**
- c) Phishing and Online Scams**
- d) Safe Use of Social Media**
- e) Online Gaming Safety·**
- f) Understanding Digital Footprints**
- g) Computer Viruses**





Happy

HOLIDAYS

