Holiday Homework

CLASS-9

SESSION (2026-2027)

English

1 Revise the syllabus done in class
2 Complete the writing task of the following pages of the Kaveri textbook in your English notebook- 32, 50, 80 in about 100 words each.

Hindi

Complete the work as discussed in the class...complete the assignments

Mathematics

1. Solve all exercises of Chapter : 1 and 2 in maths fair notebook.
2. Make a project report on Brahmagupta, Aryabhatta and Archimedes work on the number system.

Social Science

Revise the syllabus.
Prepare your Project work as discussed in the class.

Physics

1. Revise the work done in the class.
2. Solve the NCERT back exercise of the book.
3. Solve the given numerical in the notebook.

Chemistry

Create a structured table in your project file. Search in your home and classify at least 10 different substances you encounter daily into the following categories:
Pure Substances: Elements or Compounds
Homogeneous mixtures: Solutions
Heterogeneous Mixtures: Suspensions or Colloids
Your final project should be neatly presented in a folder or scrapfile, organized as follows:
COVER PAGE
Introduction
Title: Chemistry of everyday substances
Your name, roll no. class, section,
Mind map of Pure Substances and impure substances and its types
Demonstration of tyndall effect
(With photographs)

Biology

Choose Any One Activity
1. 3D Cell Model
Make a colourful 3D model of:
Plant Cell or
Animal Cell
Use clay, thermocol, cardboard, jelly, or waste material. Label all organelles neatly
Biology Scrapbook

1. Prepare a scrapbook on:
“Amazing World of Cells”
Include:
Different types of cells
Pictures from magazines/newspapers
Interesting facts
Scientist information
Leaf Collection Activity

1. Collect 8–10 different leaves and paste them in a file.
Write:
Name of plant
Type of venation
Shape of leaf
Biology Comic Strip

1. Create a short comic/story showing:
Journey inside a cell
How food is digested
Conversation between cell organelles
Use colours and creative dialogues

AI

Revise the syllabus done in the class.

Punjabi

Revise the syllabus done in the class

Physical Education –

Kindly complete the following topics in your sports file:

1. History of Athletics
2. Athletics Events — Men and Women
3. Classification of Athletics Events
4. Standard Track — Marking of the Track
5. Lane and Line
6. Staggered Start
7. Sprint Race Starts
   - Bunch Start
   - Medium Start
   - Elongated Start
8. Method of Crouch Start
9. Throwing Events
10. Shot Put — Putting the Shot
11. Jumping Events — Long Jump
12. First Aid

Note: All topics are to be covered in your sports file.

Class IX : Assignment
Motion

1. A particle is moving in a circle of diameter 5m. Calculate the distance covered and the displacement when it competes 3 revolutions.

2. A body thrown vertically upwards reaches a maximum height 'h'. It then returns to ground. Calculate the distance travelled and the displacement.

3. A body travels a distance of 15m from A to B and then moves a distance of 20m at right angles to AB. Calculate the total distance travelled and the displacement.

4. An object is moving in a circle of radius 'r'. Calculate the distance and displacement
   (i) when it completes half the circle
   (ii) when it completes one full circle.

5. An object travels 16m in 4s and then another 16m in 2s. What is the average speed of the object?

6. Vishnu swims in a 90m long pool. He covers 180m in one minute by swimming from one end to the other and back along the same straight path. Find the average speed and average velocity of Vishnu.

7. In along distance race, the athletics were expected to take four rounds of the track such that the line of finish was same as the line of start. Suppose the length of the track was 200m.
   (a) What is the total distance to be covered by the athletics?
   (b) What is the displacement of the athletics when they touch the finish line?
   (c) Is the motion of the athletics uniform or non-uniform?
   (d) Is the displacement of an athletic and the distance covered by him at the end of the race equal?

8. Starting from a stationary position, Bhuvan paddles his bicycle to attain a velocity of 6m/s in 30s. Then he applies brakes such that the velocity of bicycle comes down to 4m/s in the next 5s. Calculate the acceleration of the bicycle in both the cases.

9. Amit is moving in his car with a velocity of 45km/hr. How much distance will he cover
   (a) in one minute and
   (b) in one second.

10. The odometer of a car reads 2000 km at the start of a trip and 2400km at the end of the trip. If the trip took 8 hr, calculate the average speed of the car in km/hr and m/s.

11. An electric train is moving with a velocity of 120km/hr. How much distance will it move in 30s?

12. A body is moving with a velocity of 15m/s. If the motion is uniform, what will be the velocity after 10s?

13. A train travels some distance with a speed of 30km/hr and returns with a speed of 45km/hr. Calculate the average speed of the train.

14. A train 100m long moving on a straight level track passes a pole in 5s. Find
   (a) the speed of the train
   (b) the time it will take to cross a bridge 500m long.

15. A car travels along a straight line for first half time with speed 40km/hr and the second half time with speed 60km/hr. Find the average speed of the car.