

PM SHRI KENDRIYA VIDYALAYA KHAMMAM

AUTUMN BREAK HOLIDAYS HOMEWORK (2025-26)

CLASS IX

SOCIAL

1) Complete the map work i.e. Physical features, drainage and axis power and allied power countries from history. complete all notes up to date

CLASS: IX (English)

1. Read the lesson "The legend of North land"
And write all the Poetic devices in your Homework note book.
2. Write any two stories of your choices. Word limit 120-150.
3. Solve the PT2 question paper in your Homework note book.

SCIENCE (CHEMISTRY)

HOLIDAY HOMEWORK

Name: _____

Roll Number: 22

Board: CBSE

Subject: Chemistry

Class: 9

Chapter: Matter in Our Surroundings

1. Define matter and list its different states.
2. Describe the characteristics of particles of matter.
3. Explain the process of diffusion with an example.
4. What is the difference between boiling and evaporation?
5. Describe how the rate of evaporation is affected by different factors.
6. Define latent heat. How is it different for fusion and vaporization?
7. What is sublimation? Give two examples.
8. Explain the interconversion of states of matter with a diagram.
9. Describe the effect of temperature on the state of matter.
10. Why does a gas fill a vessel completely?
11. Compare the properties of solids, liquids, and gases.
12. What is meant by the boiling point of a liquid?
13. State and explain the law of conservation of mass.
14. How does pressure affect the state of matter?
15. Differentiate between physical and chemical changes with examples.
16. Why do naphthalene balls disappear with time without leaving any residue?
17. What is the role of kinetic energy in the movement of particles?
18. Define condensation. How is it used in daily life?
19. What are compressibility and rigidity? How do they differ in states of matter?
20. Describe the water cycle in terms of physical changes of matter.

Science (BIOLOGY)

1. 10 MCQs from Each chapter
2. 10 Assertion and Reason from 2 chapters
3. Art integrated project -DIY and Kokedema

SCIENCE (PHYSICS)

1. Plot a Graph of daily weather or Temperature using the data from local Newspapers.
2. Write 10 examples for Newton's First law of motion and Third law of motion.

Artificial Intelligence

Math for AI (Statistics & Probability) worksheet

1. Write the probability of getting a head on tossing a coin.
2. What is the mean of the numbers 2, 4, 6, 8?
3. If a dice is thrown, how many possible outcomes are there?
4. Define median.
5. Write one use of probability in Artificial Intelligence.
6. A bag has 5 red and 5 blue balls. If one ball is picked at random, what is the probability of getting a red ball?
7. Find the mode of the numbers: 3, 5, 7, 3, 2, 3, 8.
8. A coin is tossed twice. Write the sample space. Find the probability of getting 2 heads.
9. The marks of 5 students are 10, 15, 20, 25, 30. Find the mean marks.
10. Write any two ways statistics helps in AI.
11. The daily wages (in ₹) of 6 workers are: 100, 120, 150, 130, 100, 140.
 - Find the mean.
 - Find the median.
 - Find the mode.

MATHS

1. Verify algebraic activity by paper cutting method.
2. Draw any figure on graph sheet and locate 10 different points on it.
3. Verify the congruency by using paper cutting method.