



ADARSH GYANODAYA VIDYALAYA

BARH PATNA-803213

Integrated Holiday Homework – 2021

Class IX

ENGLISH

1. Draw a clean picture of mechanical teacher of Margie. Write about her mechanical teacher
2. Draw a picture of Shehnai. Trace the origin of Shehnai and its popular culture. Also name Popular Shenai Players of India.
3. Draw a clean picture of the drawing room of Kezia's father and also write what were her father and Mother doing there?

Complete the following activities:

4. Make notes from chapter The fun they had.
5. Make Notes from chapter The sound of Music.
6. Remember the poem "The Road not taken"
7. Make notes chapter the sound of Music
8. Remember poem "wind" ans answer the questions from exercise
9. Make notes from chapter the little girl.
10. Make notes from these chapters of book- "Moments":
 - a. The lost child
 - b. The adventure of toto
 - c. Iswaran the story teller

SCIENCE

CHEMISTRY

1. Draw a labeled diagram of experimental set-up to demonstrate the sublimation of ammonium chloride.
2. What is evaporation? State the various factors which affects the evaporation.
3. What is matter? Write the characteristics of particle of matter.
4. What are gases? Write two properties of gases.
5. Draw the process of diffusion. Explain diffusion in Solid, Liquid, and gaseous substances.
6. Convert the temperature of 25 C to Kelvin scale.
7. Convert the temperature of 300 K to Celsius scale.

BIOLOGY

1. Draw a well labeled diagram of Animal cell and Plant cell and differentiate between them in tabular form.
2. Write the differences between rough endoplasmic reticulum and smooth endoplasmic reticulum.
3. Draw neat and clean diagram of prokaryotic and Eukaryotic cell and Write a brief note about both.
4. Write the difference between organs and organelle.
5. What are Mitochondria? Draw its diagram and explain functions.
6. Draw a diagram of nucleus. Explain chromatin.

PHYSICS

- Derive the formula :
 - $S = ut + \frac{1}{2}at^2$
 - $V = u + at$
 - $2as = v^2 - u^2$
- A car travelling at 20 km/hr speeds up to 60 km/hr in 6 seconds. What is its acceleration?
- Define Motion. Explain with example. Draw the graph of uniform motion and non-uniform motion.
- What is velocity? SI unit of velocity
- A car travels 30 km at uniform speed of 40km/hr and next 30 km at uniform speed of 20km/hr. find its average speed.

SOCIAL STUDIES

- Draw the Political Map of India.
- Draw the Political map of World.
- Show Democratic countries of Political Map of world.
- Show the timeline of French revolution with the help of Map of France.

Answer the following questions:

- Explain the reasons behind Rise of French Revolution.
- What is democracy? Write features of Democracy.
- Show the neighboring countries of India on the Map
- What do you mean by standard meridian of India?
- Write a note Napoleon Bonaparte. (Surf Internet to find about his rise and fall)
- What is need of democracy in any country? Make a list of countries which have democratic form of government.
- Write about contribution of women in French revolution.

MATHS

- Define rational Number and irrational number.
- Explain the properties of operation :
 - Closure
 - Commutative
 - Associative
 - Distributive
 - Zero property
- Represent these number on number line:
 - $\sqrt{3.6}$
 - 3.846
 - $\sqrt{5}$
- Prove that $\sqrt{2}$ is an irrational number.
- Explain rationalization with different example.
- Define Polynomial, degree of polynomial, zero of polynomial.
- Classify polynomials.
- Explain the remainder theorem and factor theorem
- Solve the questions from exercise 2.3 and 2,4
- Locate any 5 points on graph
- Draw the graph of :
 - $X = 3y$
 - $X + y = 7$
 - $X = -2 + y$
- Explain the Euclid postulates. (All with example)
- Solve the exercise from chapter related to Euclid postulates.