

Science Homework By Mr PK Verma

Class 7

Complete the following activities in A4 Size sheet.

Refer NCERT textbook

* Activity based on A Simple Pendulum — Page No. 109

Explain with the activity based on simple pendulum, the oscillatory motion.

* What is the role of Air in the Preparation of Food. Show that with an activity. — Page No. 143

* Activity based on Periscope and Kaleidoscope — Page No. 164

With the help of diagram explain the term periscope and kaleidoscope.

8 A and B – Science Homework

Complete the following activities in A4 Size Sheet

From NCERT Curiosity Science Book

* Page No. 160 — Activity 10.6

With the help of diagram of plane mirror, concave mirror, convex mirror show the term convergence and divergence.

* Page No. 137 — Activity 9.21

How does temperature affect the solubility of a solute?

* Page No. 107 — Activity 7.3

How does the inter particles spacing differ in the three States of matter?

9A Home Assignment – Based on Biology Practicals

Bio Class 9 A

Attempt the following questions in your A4 Size Sheet.

1. Cell Mounts: Draw neat, labelled diagrams of onion peel cells and human cheek cells. Write the procedure for preparing temporary mounts and mention two differences between the cells.

2. Plant and Animal Tissues: Draw and label the structures of parenchyma, collenchyma, sclerenchyma, striated muscle, smooth muscle, cardiac muscle and nerve cells. Write one characteristic function of each tissue.

3. Diversity in Living Organisms: Draw or paste labelled diagrams of Spirogyra, Agaricus, moss, fern, Pinus and an angiospermic plant. Also describe the identifying features of an earthworm, cockroach, bony fish and bird.

Home Assignment – Based on Biology Practical
(Class. 10A. Biology)

Attempt the following questions in your A 4 size paper.

1. Stomata Study: Draw a neat, labelled diagram of stomata and describe the structure and functions of guard cells and epidermal pores.
2. Respiration Experiment: Describe an experiment using germinating seeds and potassium hydroxide (KOH) to demonstrate gas exchange during respiration. Draw a labelled diagram of the experimental setup.
3. Asexual Reproduction: Draw and label the stages of binary fission in Amoeba and budding in yeast. Write two differences between these processes.
4. Dicot Seed Embryo: Draw a neat, labelled diagram of a dicot seed embryo. Identify the seed coat, plumule and radicle, and briefly describe their functions.

By Dr Pramod Kumar
Class IX B+C

1. Sketch the diagrams of Cell organelles.
2. On Chart paper draw and label the diagrams of Plant's Meristematic Tissues.
3. Discuss models of Plasma membrane with suitable diagrams.
4. Draw the diagram of Complex Permanent Tissue.
5. What are Mitosis and Meiosis Cell Division? What are common difference between Mitotic and Meiotic Cell Division.

Class X B+C

1. Make a project on the topic 'Chlorophyll is essential for photosynthesis'.
2. Draw and label the diagrams of Reflex Action and nerve synapse.
3. Make a flow chart of Impulse transfer in human nervous system by means of neurons.
4. Make a list of the food substrate and action of digestive enzymes on them.
5. Draw and label diagram of Hemodialysis machine model.

Class XI A+B

1. Draw and label the diagrams of the Male and Female Reproductive system of Frog.
2. Draw and label TS of Dicot Root and Monocot Stem.
3. Draw and label diagram of Vascular Tissue System.
4. Classify Chordata. What are the common points for classification of Animals.

5. Classify Pisces. Give characteristics of Bony and cartilaginous fishes.
6. Draw and label diagrams of Euglenoids and Dinoflagellates.
7. Give an outline structure of classification of Plant Kingdom.

Class XII A+B

1. Complete question answer of the chapter Reproduction in flowering plants & Molecular basis of Inheritance.
2. Draw and label the important diagrams of Monohybrid and Dihybrid Cross of Mendelian experiments on Inheritance.
3. List some common Mendelian Disorders.
4. Discuss some Chromosomal disorders with common symptoms.
5. Draw and label the diagram of the nucleosome. Discuss the importance of Nucleosome.
6. Illustrate the Griffith experiment with suitable diagrams.
7. Complete question answer of the chapter Molecular basis of inheritance.
8. Illustrate the process of Incomplete Dominance, Co dominance, Pleiotropy & Polygenic Inheritance