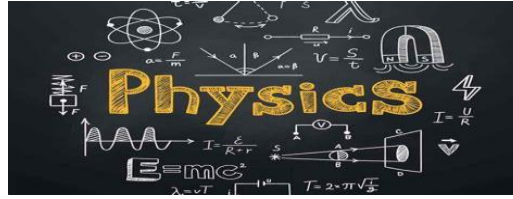




**B.V.M. PUBLIC SCHOOL**  
**SESSION 2026-27**  
**SUMMER VACATION HOLIDAY HOMEWORK**  
**CLASS- XI G**



## THEORY

**Chapter 1** (Units and Measurements)

**Chapter 2** (Motion in Straight line)

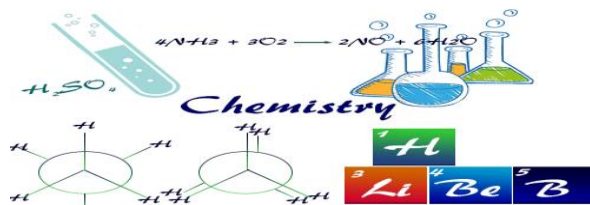
## PRACTICAL

Complete following experiments in Physics lab manual:

1. To measure diameter of a small spherical/cylindrical body using Vernier Calliper.
2. To measure internal diameter and depth of a given beaker/calorimeter using Vernier Callipers and hence find its volume.
3. To measure diameter of a given wire using screw Gauge.
4. To measure the thickness of a given sheet using a screw gauge.
5. Using a simple pendulum, plot its graph and use it to find the effective length of the second pendulum.
6. To study variation of time period of a simple pendulum of a given length by taking bobs of same size but different masses and interpret the result.
7. To find the force constant of a helical spring by plotting a graph between load and extension.
8. To study the relationship between the temperature of a hot body and time by plotting a cooling curve.
9. Complete following activities in lab manual:
  - To make a paper scale of given least count, e.g., 0.2cm, 0.5 cm.
  - To plot a graph for a given set of data, with proper choice of scales and error bars.
  - To observe and explain the effect of heating on a bi-metallic strip.
  - To note the change in level of liquid in a container on heating and interpret the observation.



- **Roll no 1 to 10**  
Make a project on daily life application of trigonometry
- **Roll no 11 to 20**  
Make a project on daily life application of permutations and combinations.
- **Roll no 21 to 30**  
Make a project on daily life application of three dimensional geometry.
- **Roll no 31 to 40**  
Make a project on daily life application of limits and Derivatives.
- **Roll no 41 to 50**  
Make a project on daily life application of Straight lines.
- **Apart from this, It is mandatory to write 8 activities in math activities file.**



**Complete the following experiments in your Chemistry Practical File (Lab Manual Vivechan Publications) as per instructions given below: -**

**LIST OF EXPERIMENTS**

1. To cut a glass tube or glass rod and also round its edges.
2. To bend a glass tube.
3. To draw a jet from a glass tube.
4. To bore a hole in a cork.
5. To Prepare Crystals of Pure Copper Sulphate (CuSO<sub>4</sub>.5H<sub>2</sub>O) from a given impure sample of the blue vitriol.
6. To Prepare Crystals of Potash alum (K<sub>2</sub>SO<sub>4</sub>.Al<sub>2</sub>(SO<sub>4</sub>)<sub>3</sub>.24H<sub>2</sub>O) from the crude sample.
7. To determine the pH of given samples of juices using pH paper and universal indicator.
8. To detect extra elements (Nitrogen, Sulphur, Chlorine, Bromine and Iodine) in the given organic compound.

**Complete and Revise Chapter– 1 Some Basic Concepts of Chemistry in your fair notebook.**



1. How does an ALU work?
2. Explain the types of Operating Systems with examples.
3. What are memory devices? Explain RAM and ROM.
4. List different types of impact printers.
5. List all the secondary storage devices available in your school or home.
6. Compare volatile memory and non-memory.
7. What is a barcode? Why is a barcode reader used?
8. Give the difference between an impact and a non-impact printer.
9. Explain the following: a- Assemble    b- Compiler    c- Interpreter
10. Name the software required to make a computer functional. Write down its two primary services.



### General Instructions-

- a) All assignments are compulsory.
- b) Attempt all questions on A4 size sheets.
- c) Submit your file latest by July 03, 2026.

### Homework Assignments-

1. Make three different Posters on any of the topics of social or environmental relevance. For eg. Save Water, Gender Equality, The Importance of Afforestation, Any type of Pollution, Climate Change, etc.
2. **Write Speech on ANY TWO of the following topics:**
  - Impact of Cinema on Life
  - Stress and its Effects on Youth
  - English as a Global Language
  - Wildlife Conservation
3. **Reorder the following sentences:**
  - i. to/ be/ her/ Sudha/ the/ hard/ class/ is/ working/ in/ order/ best
  - ii. things/ is/ this/ why/ are/ constantly/ shifting
  - iii. during/ forests/ forces/ provide cover for/ battles/ our
  - iv. last/ was/ the railway/ Sunday/ particularly/ platform/ busy
  - v. on the platform/ vendors with/ were/ wares/ their/ selling/ flowers/ sweet-Smelling/ the
  - vi. until/ no/ I/ him/ I had/ had/ idea/ he/ told/ won a medal
  - vii. can't/ is/ hear anything because/ He/ he/ entirely deaf
  - viii. Earth/ years/ For/ man has been exploiting/ the/ many
  - ix. been/ Ambassador/ has/ Tendulkar/ named as the Rio Olympics' Brand/ Sachin
  - x. Age/ to/ the/ under/ of/ Children/ are not permitted/ eighteen/ drive
4. **Read the following chapters & make notes in a notebook.**
  - i. The Summer of the Beautiful White Horse
  - ii. We're Not Afraid to Die ... if We Can All Be Together
5. **Write a character sketch of your grandmother (either paternal or maternal).**



### ANSWER THE FOLLOWING QUESTIONS:

1. Draw labelled diagrams with dimensions of Table Tennis and also mention its rules, skills and awardees.
2. Procedure, benefits and contradictions or any five corrective asana.
3. Fitness test administration. (SAI Khelo India Test in School)
4. Draw labelled diagram with dimension of Badminton/Ball Badminton and also mention its rules, skills and awardees.