

# KENDRIYA VIDYALAYA CHAMERA-2

## CHEMISTRY LABORATORY

At every stage in life, we are connected to different aspects of chemistry directly or indirectly. It encircles a variety of fields –agriculture, food, medicine, fertilizers, polymers, metals etc. Thus, the knowledge of chemistry is useful in different aspects of human life.

### **Our chemistry lab aims to**

- show our students the excitement of science.
- raise the attainment in science by supporting the school curriculum.
- in understanding theoretical concepts doing some experiments in lab
- inspire our students to become the scientists of the future.

Our chemistry lab is spacious and well ventilated, with sufficient seating capacity for students to work comfortably. The chemistry lab is well equipped with chemicals and other apparatus to cater to the needs of all the students up to class 12.

Students start using the chemistry lab from class 6 onwards. They show great enthusiasm in using chemicals and perform hands on experiments. The lab inculcates curiosity and inquisitiveness in students. It plays a very important role in developing a scientific temperament in our students.

Our chemistry lab is equipped with various scientific instrument provided by KVS Hq. under modernization of laboratories.

### **Some of the essential instruments available in the lab include:**

- All chemicals, glassware and instruments are available to conduct practical prescribed by CBSE.
- Glassware (Beakers, Test Tubes, conical flask, burette, pipette etc.): These are used in various experiments.
- Distillation assembly: Used to understand distillation process and to prepare distill water
- Models and Charts: Various molecular and orbital are available for detailed study. Educational charts are also displayed prominently.

### **Technological Advancements:**

The chemistry lab of KV Chamera No. 2 also incorporates technology for enhancing the learning process. The technological features included:

- ICT Integration\*: The lab is supported by a virtual lab which is used to conduct experiments. The virtual lab also provides animations of chemical reactions at the molecular level for better understanding.

- Computer Systems: Computers with internet access are available for research and data analysis.

- Digital pH sensor with tablet.

### **Safety and Hygiene:**

The lab adheres to strict safety protocols, ensuring a secure environment for both students and teachers. Essential safety equipment such as first-aid kits, fire extinguishers and eyewash stations are easily accessible. Students are briefed on safety procedures before performing experiments. Proper hygiene is also maintained, with the lab regularly cleaned and instruments sanitized after every use.

