Bal Bharati PUBLIC SCHOOL MANESAR

SCIENCE CLUB REPORT (2024-25)

ACTIVITY- Test of different gases (O_2, H_2, NO_2, CO_2) and formation of clouds

1. Date & Time of the Workshop: Saturday, 20th July 2024, 10:30 AM - 12:10 AM

2. Venue: Chemistry lab

3. Organizer: Science Club

4. Teacher in-charge: Ms Pooja

5. Accompanying support Staff: Mr. Rakesh (Lab Assistant)

6. Attended by (no. of students, with class & section) :- 27 students of Science Club VI-VIII

7. Key highlights / main points:

▪ Science clubs are an exciting way for students to explore and engage with the world of science.

▪ These clubs provide an opportunity for individuals to learn about different scientific disciplines, conduct experiments, and participate in various scientific activities.

▪ On 20th July, students from grade VI to VIII got the opportunity to conduct an activity in chemistry lab where they prepare different solution to test different gases.

▪ Through experiment they explored different scientific concepts in a hands-on way.

▪ By conducting experiments and participating, students gained a deeper knowledge and understanding about the properties and chemical reactions of different gases

▪ Students will be able to explain how clouds form through the processes of condensation and changes in air pressure.

8. Educational Opportunities:

A) To provide students with hands-on experience in identifying and testing different gases through various chemical reactions. This activity aims to demonstrate the properties and reactions of oxygen (O_2), hydrogen (H_2), nitrogen dioxide (NO_2), and carbon dioxide (CO_2). Through these experiments, students will gain a deeper understanding of gas properties, observe characteristic reactions, and develop essential laboratory skills. Additionally, they will learn to identify gases based on their physical and chemical properties and appreciate the importance of safety measures in a laboratory setting.

B) To provide students with a hands-on learning experience that demonstrates the process of cloud formation through the concepts of pressure and condensation. This activity aims to help students understand how changes in air pressure and temperature can cause water vapor to condense into tiny droplets, forming clouds. Students will also learn about the role of aerosols in cloud formation and the principles of the water cycle. This experiment will foster a deeper understanding of atmospheric science and enhance their observational and critical thinking skills.

9. Date of Report Submission: 21th July, 2024

Glimpses of the workshop-