

SALWAN PUBLIC SCHOOL, MAYUR VIHAR

Academic Session: 2024-2025

Date: Thursday, 09 January 2025

Teachers Involved: Ms. Seema N, Ms. A Romita, Ms. Uzma A, Ms. Trapti G

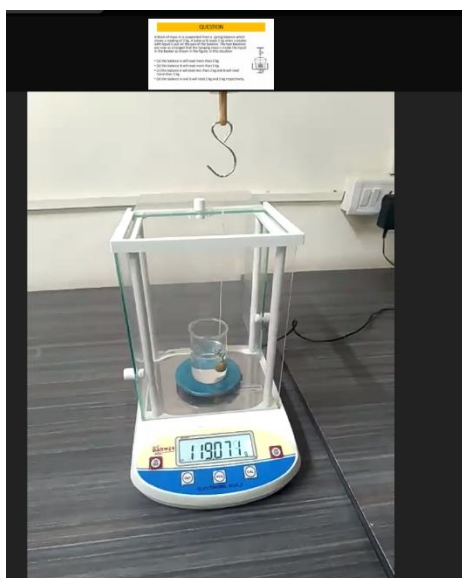
Topic: Best Practices for Educators and Learners of Physics

Tagline: "Empowering Minds Through Hands-On Science Exploration"

The workshop commenced with the exchange of New Year greetings. Ms. Vaani, PGT Physics, SPS Rajender Nagar shared her valuable insights from a workshop conducted by Dr. H.C. Verma in December, focusing on practical experiments and activities for Classes IX–XII.

Discussion on measuring the resistance of an incandescent lamp using a multimeter, comparing experimental and theoretical values, and exploring the variation of resistance with temperature was done.

This was reinforced through multiple-choice questions to strengthen the concept.



Next, she demonstrated activities in optics using everyday items like mirrors, mobile torches, balloons, prisms, glass slabs, and laser pointers. These experiments included dispersion due to refraction through a prism, measuring the angle of minimum deviation, refraction through slabs, and lateral displacement, followed by MCQs on optics.

Activities on magnetism involved identifying poles of a magnet using a half-magnetized steel scale and compass needle, leading to a discussion on Earth's magnetic field. MCQs on Archimedes' Principle were accompanied by a justification activity using a spring

balance, pendulum bob, electrical balance, and water-filled beaker.

The session concluded with engaging activities in electrostatics, including moving a scale with a charged balloon, moving a bottle cap through body heat, and exploring the role of frictional force in a bicycle. The workshop was enriching and focussed on hands-on learning.