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PHYSICS

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UNIT X: Experimental Skills

Familiarity with the basic approach and observations of the experiments and activities:

1. Vernier calipers-its use to measure the internal and external diameter and depth of a vessel.
2. Screw gauge-its use to determine thickness/ diameter of thin sheet/wire.
3. Simple Pendulum-dissipation of energy by plotting a graph - the square of amplitude vs. time.
4. Surface tension of water by capillary rise and effect of detergents,
5. Co-efficient of Viscosity of a viscous liquid by measuring terminal velocity of a spherical body
6. Speed of sound in air at room temperature using a resonance tube,
7. Specific heat capacity of a given (i) solid and (ii) liquid by method of mixtures.
8. The resistivity of the material of a given wire using Ohm's law.
9. The resistance of a given wire using Ohm's law.
10. Resistance and figure of merit of a galvanometer by half deflection method.
11. The focal length of(i) Convex mirror, (ii) Concave mirror, and (iii) Convex lens, by parallax method.
12. The plot of the angle of deviation vs angle of incidence for a triangular prism.
13. Refractive index of a glass slab using a travelling microscope.
14. Characteristic curves of a p-n junction diode in forward and reverse bias.

