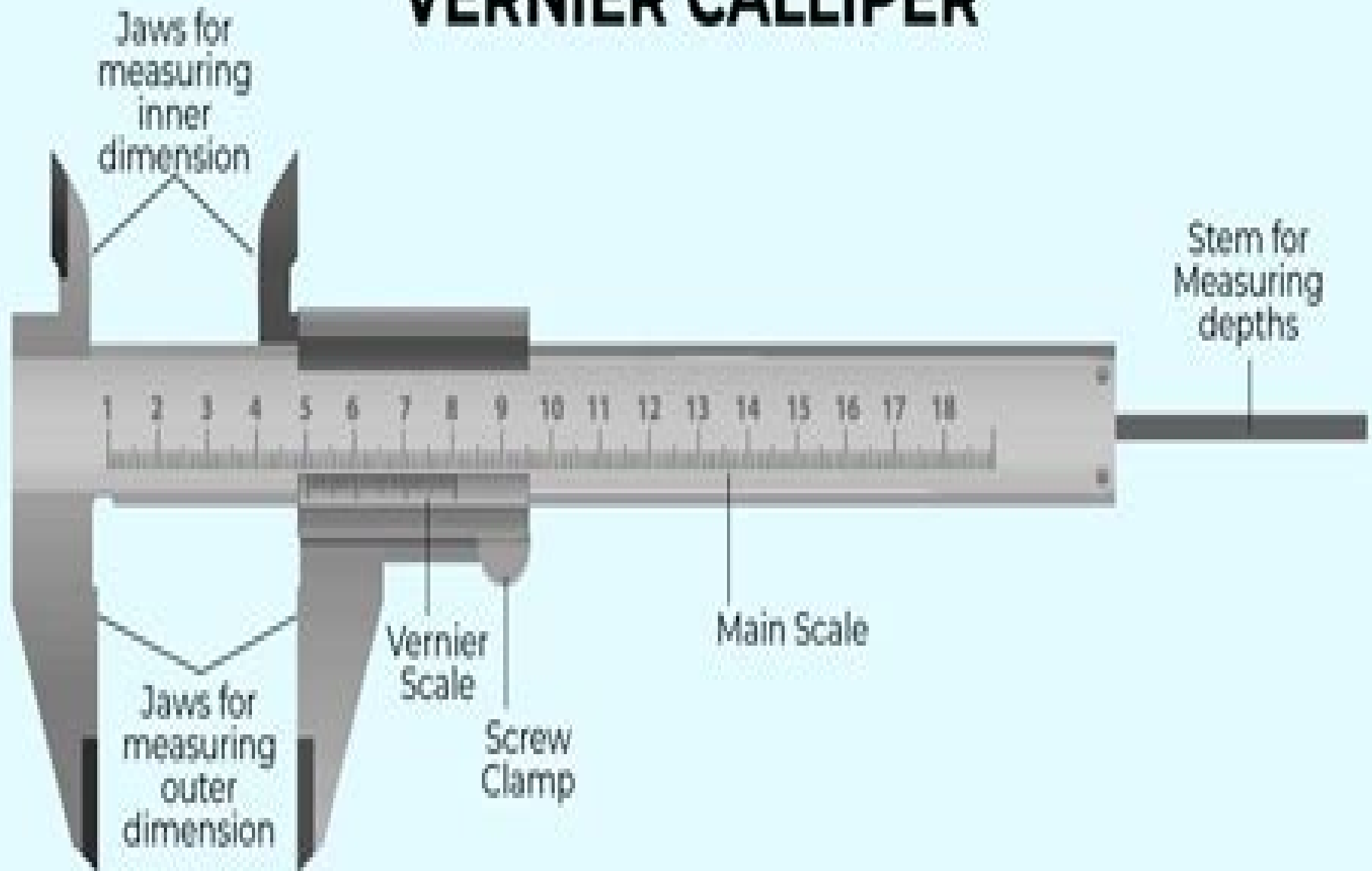


# VERNIER CALLIPER



# Lab Manual For Vernier Calliper Experiment

**Silas Ellsworth Coleman**



## **Lab Manual For Vernier Calliper Experiment:**

**A Laboratory Manual of Experiments in Physics** Leonard Rose Ingersoll, 1925      **Practical/Laboratory Manual**  
**Physics Class XI based on NCERT guidelines by Dr. J. P. Goel & Er. Meera Goyal** Dr. J. P. Goel, Er. Meera Goyal, 2020-06-26

**EXPERIMENTS**

1 Measurement of Length 1 To measure the diameter of a small spherical cylindrical body by using a vernier callipers 2 To measure the dimensions of a given regular body of known mass using vernier callipers and hence find its density 3 To measure the internal diameter and depth of a given cylindrical vessel say calorimeter beaker by using vernier callipers and hence find its internal volume i.e. capacity Viva voce 2 Screw Gauge Micrometer 4 To determine the diameter of a given wire using a screw gauge and find its volume 5 To find the thickness of a given sheet with the help of screw gauge 6 To measure the volume of an irregular lamina by using a screw gauge Viva voce 3 Spherometer 7 To measure the radius of curvature of a given spherical surface convex lens by using a spherometer Viva voce 4 Mass and Weight 8 To determine the mass of two different objects using a beam balance Viva voce 5 Parallelogram Law of Vectors 9 To find the weight of a given body using parallelogram law of vectors Viva voce 6 Simple Pendulum Measurement of Time 10 Using a simple pendulum plot  $L$  vs  $T$  and  $L$  vs  $T^2$  graphs Hence find the effective length of a second's pendulum using appropriate graphs Viva voce 7 Friction 11 To study the relationship between force of limiting friction and normal reaction and to find the coefficient of friction between a block and a horizontal surface Viva voce 8 Motion of a Body Along an Inclined Plane 12 To find the downward force along an inclined plane acting on a roller due to gravitational pull of the earth and study its relationship with the angle of inclination by plotting graph between force and  $\sin \theta$  Viva voce

**SECTION B EXPERIMENTS**

1 Elasticity 1 To determine the Young's modulus of elasticity of the material of the wire using Searle's apparatus Viva voce 2 Spring Constant 2 To find the spring constant of a helical spring by plotting load extension graph Viva voce 3 Boyle's Gas Law 3 To study the variation in volume with pressure for a sample of air constant temperature by plotting graphs between  $P$  and  $V$  and between  $P$  and  $1/V$  18 Viva voce 4 Surface Tension 4 To determine the surface tension of water by capillary rise method Viva voce 5 Viscosity 5 To determine the coefficient of viscosity of given liquid by measuring the terminal velocity of a given spherical body in it Viva voce 6 Newton's Law of Cooling 6 To study the relationship between temperature of a hot body and time by plotting a cooling curve Viva voce 7 Vibrations of Strings 7 To study the relation between frequency and length for a given wire under constant tension using a sonometer Viva voce 8 To study the relation between the length of a given wire and tension for constant frequency using sonometer Viva voce 8 Vibrations of Air Columns 9 To find the velocity of sound in air at room temperature using a resonance tube by two resonance position Viva voce 9 Specific Heat 10 To determine specific heat of a given solid by the method of mixture 11 To determine the specific heat of a given liquid by method of mixture Viva voce

**SECTION A ACTIVITIES**

1 To make a paper scale of given least count e.g. 0.2 cm 0.5 cm and use it to measure the length of a given object 2 To determine the mass of a given body using a metre scale and by applying

principle of moments Viva voce 3 To plot a graph for a given set of data using proper choice of scales and error bars Viva voce 4 To measure the force of limiting friction for rolling of a roller on horizontal plane Viva voce 5 To study the variation in the range of a jet of water with angle of projection Viva voce 6 To study the conservation of energy of a ball rolling down on inclined plane using a double inclined plane Viva voce 7 To study dissipation of energy of a simple pendulum by plotting a graph between square of amplitude and time Viva voce

**SECTION B ACTIVITIES**

1 To observe the change of the state and plot a cooling curve for molten wax Viva voce 2 To observe and explain the effect of heating on a bimetallic strip Viva voce 3 To note the change in level of liquid in a container on heating and interpret the observations Viva voce 4 To study the effect of detergent in surface tension by observing capillary rise Viva voce 5 To study the factors affecting the rate of loss of heat of a liquid Viva voce 6 To study the effect of load on depression of a suitably clamped meter scale loaded i at its end ii in the middle Viva voce 7 To observe the decrease in pressure with the increase in velocity of the fluid Viva voce

**APPENDIX** Some Important Tables of Physical Constants Log Antilog and other Tables

ICSE-Lab Manual Physics-TB-09 Dr M K Gandhi, ICSE Lab Manual Physics TB 09 *Practical Physics; a Laboratory Manual for Colleges and Technical Schools* William Suddards Franklin, 1908 A Laboratory Manual of Physics for Use in High Schools Henry Crew, Robert Richardson Tatnall, 1902 **A Manual of Experiments in Physics** Joseph Sweetman Ames, William Julian Albert Bliss, 1898 **An Experimental Study of the Teacher Demonstration and the Individual Laboratory Methods in the Teaching of Physics** Ray Elwin Brasure, 1929 A Laboratory Manual of Physics for Use in Secondary Schools Charles Elijah Linebarger, 1911 **A Practical Physics Manual** Walter Robert Ahrens, Theodore Lincoln Harley, Elmer Ellsworth Burns, 1917 A Laboratory Manual of Elementary College Physics Harry Emmons Hammond, 1926 Physical Laboratory Manual Emory Leon Chaffee, Frederick Albert Saunders, 1920 Directed Experiments in Physics, a Laboratory Manual for Use with Any Physics Text Ernest Hicks White, 1942 **Practical Physics** William Suddards Franklin, Chauncey M. Crawford, Barry MacNutt, 1908 *Physical Laboratory Manual for Secondary Schools* Silas Ellsworth Coleman, 1903 **Laboratory Manual of Testing Materials** William Kendrick Hatt, Herbert Henry Scofield, 1913 **New Laboratory Manual of Physics** Silas Ellsworth Coleman, 1908 Physics Laboratory Manual, by I.V. Ragsdale and Alvin H. Nielson I. V. Ragsdale, 1940 *Manual of Experimental Physics for Secondary Schools* Fred Richardson Nichols, Charles Henry Smith, Charles Mark Turtin, 1899 *Manual of Experimental Physics for Secondary School* Fred Richardson Nichols, Charles Henry Smith, Charles Mark Turton, 1901 Catalogue ... Dartmouth College, 1913

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