



General Description

The Inclined Plane Apparatus is designed for demonstrating the principles of acceleration, velocity, force, and motion on an inclined surface. It enables students to investigate how varying the angle of inclination affects the acceleration of a rolling object and to determine the weight of an unknown roller through practical experimentation. The apparatus provides an economical and effective solution for physics laboratories in educational institutions.

Technical Specifications

Parameter	Specification
Experiment	Study of acceleration and velocity on an inclined plane
Learning Objectives	<ul style="list-style-type: none"> Investigate the effect of ramp angle on acceleration. Determine the weight of an unknown roller. Demonstrate principles of motion and force.
Inclined Plane Construction	Wooden board with glass top, hinged to the base board
Board Dimensions	64 × 12.5 × 4 cm (Approx.)
Pulley Arrangement	Low-friction pulley mounted on an adjustable angle bracket with wing-nut clamp
Angle Measurement	Graduated brass arc
Roller	Iron roller supplied
Weight Pan	Stainless Steel (S.S.) pan
Additional Accessories	Physical weight set included
Overall Weight	Approx. 2.4 kg
Material	High-quality wooden construction

Note: Specifications are subject to change, Photos shown above are Indicative, Actual Product can Vary.



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Standard Features

- Durable wooden inclined plane with smooth glass top.
- Adjustable inclination using graduated brass arc.
- Low-friction pulley for accurate experimental results.
- Hinged construction for easy angle adjustment.
- Iron roller for motion experiments.
- Stainless steel weight pan with complete physical weight set.
- Suitable for classroom demonstrations and laboratory practicals.
- Compact, sturdy, and easy to store.

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