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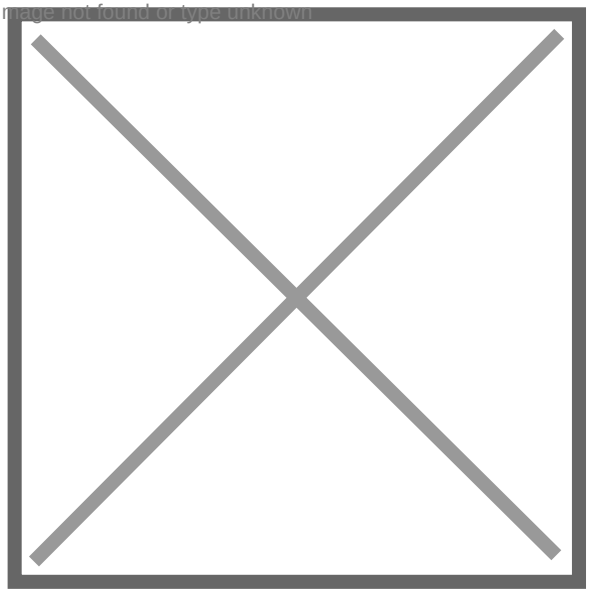
Product Name :

Apparatus Newton's Second Law

Product Code :

SLE/PHY/16

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Description :

Apparatus Newton's Second Law (Product Code: SLE/PHY/16) is a clamp-mounted spring launcher used to help students visualize and grasp Newton's Second Law of Motion in school physics labs. The sturdy unit projects one ball horizontally while another drops vertically, and both land at the same time; its spring can propel a ball 48 inches from the starting point. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM manufacturer of mechanics lab equipment in India, at its own factory in Ambala, for school physics lab equipment sets at home and abroad.

Specifications

Parameter	Detail
Teaching aim	Visualizing Newton's Second Law of Motion
Demonstration	A horizontally projected ball and a vertically dropped ball land at the same time
Launcher	Spring device that can propel a ball 48 inches from its starting point
Mounting	Detachable rod for clamping to a table or stand
Size	12 x 4-1/2 x 2 inches
Weight	1.21 lb
Documentation	Instructions provided
Product code	SLE/PHY/16
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Newton's Second Law Apparatus Used For?

Once released, each ball has only one force acting on it, its weight, which points straight down. By Newton's second law, the same force per unit mass gives both balls the same downward acceleration, so the one that is launched sideways and the one that simply drops reach the floor together. No horizontal force acts after launch, so the projected ball keeps a steady sideways speed as it falls. Students see and hear the second law at work.

Clamp the unit with its detachable rod to the edge of a bench or to a laboratory stand so it stays rigid when the spring fires. With the horizontal range of up to 48 inches marked on the floor and the launch height measured, older students can calculate the launch speed and fall time. Keep the landing area clear and let the class predict the result before each trial.

OEM Manufacturer

ScienceLab is the trading name of Jain Scientific Equipments Private Limited (CIN U293
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