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Product Name :

Conductivity of Metal Apparatus

Product Code :

SLE/H/28



Description :

Conductivity of Metal Apparatus (Product Code: SLE/H/28) turns a comparison of four metals into a timed race. Strips of copper, brass, steel and aluminium are mounted on a wooden ring and meet in the centre; when the centre is heated gently, wax placed in a hollow at the far end ofeach strip melts, and the difference in the time each cup of wax takes to melt shows how fastheat travels through each metal. It is a favourite for middle- and secondary-school heat lessons,and it is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, a schoollaboratory equipment manufacturer supplying India and international markets.

Key Details

Parameter	Detail
Metal strips	Copper, brass, steel and aluminium
Mounting	Wooden ring, with the strips meeting in the centre
Heating point	Gentle heating at the centre, where the strips meet
Indicator	Wax placed in hollows at the end of each strip
What is compared	Time taken for each cup of wax to melt

Typical Use

Students put a small, equal amount of wax into the hollow at the end of each strip, then place a gentle flame under the centre point and start timing. Because all four strips draw heat from the same shared centre, the only thing that differs is the metal. As each cup of wax melts, students log the time, and the finishing order gives a direct ranking of conduction rates. Asking the class to predict the order first, then explaining the result in terms of how readily each metal passes on heat, makes the lesson stick.

For fair results, use the same amount of wax in every hollow, keep the flame small and centred so it does not reach the wooden ring, and let the apparatus cool before resetting the wax. With a stop clock and a data table it becomes a neat, quantitative piece of physics lab equipment for school practicals, and its open layout lets a whole group watch the wax melt.

Manufacturer

ScienceLab products, including this conductivity ring, are manufactured by **Jain Scientific Equipments Private Limited** of Ambala, Haryana, for schools, colleges and distributors. Our company profile gives an overview of the business.

Related Laboratory Equipment

Everything else a timed conduction practical usually needs:

- Stop Clock — for timing how long each cup of wax takes to melt
- Wax — for filling the hollows at the end of each strip
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Find