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1. Half Life Analogue

In the study of radioactivity, student practicals are difficult to organise because of the hazardous nature of the topic, but this apparatus offers students the opportunity to obtain realistic results in a perfectly safe way. The student set contains 10 trays and 500 small plastic cubes. The cubes have one face identified and represent radioactive nuclei which have "decayed" when this face is uppermost. Ten groups shake their set of nuclei and roll them out onto the bench. For each throw the decayed nuclei are counted and removed from the set. Excellent results for an exponential decay curve are obtained with increased awareness of the link between activity and the number of nuclei present.

Code
PY2000

Pack
Each

Price
£49.70

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For demonstrating Rutherford scattering by means of a gravitational analogue of inverse square law repulsion.

The apparatus comprises a spun aluminium hill, 280mm diameter x 60mm high, a 12.5mm and 19mm x 2 steel ball and a wooden launching ramp. The shape has been determined by varying its height above the base line by an amount based upon the reciprocal of the radius.

Launching ramp, 300 x 48 x 105mm high with a guide groove down its curved front face and index marks at 40, 60, 80 and 100mm above the base to give a variety of known launching heights.

Code
PY1328

Pack
Each

Price
£69.25

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3. Ratemeter

The SEP Geiger counter is a robust, portable and compact unit capable of detecting alpha, beta and gamma radiation and recording events on a resettable digital counter. It has an integral Geiger-Muller (GM) tube which is maintained at high voltage by a small electronic inverter. Events register as audible clicks as well as a visible count on a small LCD display. The unit is powered by a single alkaline PP3 battery and is available at around half the cost of instruments with similar functionality.

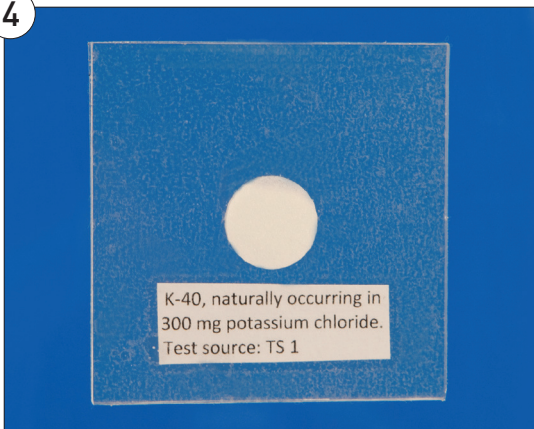
Please allow up to four weeks for delivery of this product.

Code
SEGEI003

Pack
Each

Price
£365.24

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4. GM Tube Test Source

Test Source K-40, naturally occurring in 300mg potassium chloride.

Code
EL10481

Pack
Each

Price
£49.49