

## Electrostatic Experiments

### Electrophorous (ELP.108.113)

Bakelite disc, 15 cm. diameter, in wooden sole, brass cover 10 cm. diameter, with ebonite handle and small brass contact sphere.

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### Aepinus Condenser New Pattern (ELP.108.114)

Two rigid PVC plates, each with a terminal and metal foil sheets attached, on support mounted on a slider. The supports are designed so that the plates may be set either at right angles or parallel to the sideways to show the effects of varying the separation or varying the effective area respectively. The slideway consists of a double horizontal rod bent at one end to fit a cast base & shaped at the other to form a stable foot.



### Proof Plane (ELP.108.115)

Disc dia, is 25 mm mounted on metal shaft fitted with 6 mm insulating handle. Overall length 15 cms.



### Discharger (ELP.108.116)

Jointed, small plated brass sphere mounted on curved arms, with ebonite insulating handle.

.01 Overall length 30 cm. approx.

.02 Overall length 20 cm. approx.



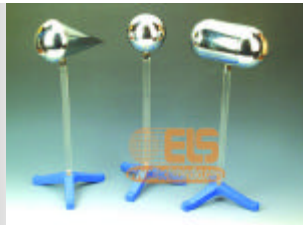
### Aepinus Condenser (ELP.108.117)

It consists of two adjustable plated 100 mm dia. Insulated handle and a glass dielectric plate. Supported on insulating pillars & provided with an insulating handle at the end of the adjusting slide rods, 4 mm sockets are drilled on the ends for the sliding rod.

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A Rectangular glass plate is supplied, which mounted in clips between the two discs. & may be easily replaced by a plate of some other material to show the effect of some other dielectrics. The whole is mounted on a polished wooden base.

### Conductor Set of 3 (ELP.108.118.01)



Made of brass, interchangeable on pillars, fitted with insulators' of ebonite, Sphere 5 cm. dia., Cylinder 12.5x5 cm. dia., Cone 10x 5 cm. length x diameter.

- .01 Individually Mounted on metal base
- .02 Individually Mounted on Bakelite Base
- .03 Mounted on single interchangeable Metal Base
- .04 Mounted on single interchangeable Bakelite Base



### Spherical Conductor (ELP.108.119)

Brass sphere 5 cm. dia., fitted with insulator of ebonite, metal base.

- .01 Mounted on metal base
- .02 Mounted on Bakelite Base



### Conical Conductor (ELP.108.120)

Brass cone 10x 5 cm. dia., fitted with insulator of ebonite, metal base.

- .01 Mounted on metal base
- .02 Mounted on Bakelite Base



### Cylindrical Conductor (ELP.108.121)

Brass cylinder 12.5x5 cm. dia. fitted with insulator of ebonite, metal base.

- .01 Mounted on metal base
- .02 Mounted on Bakelite Base



### Biot's Conductor (ELP.108.122)

To demonstrate that charge resides only on outside surfaces of a conductor. Sphere of 5 cm. diameter on insulated stand, complete with hemispherical cups, having insulated handles.



### Pair of Brass Spheres (ELP.108.123)

For demonstrating the phenomenon of electrostatic induction and sharing of charges. Metal spheres 5 cm. diameter with chrome finish mounted on insulating stem fitted into wooden polished base.



**Metal Sphere on insulating Handle** (ELP.108.124)

Sphere 8 cm. dia. with socket to accept 4 mm. plug and mounted on ebonite handle, 20 cm. Length



**Electroscope, Pith Ball** (ELP.108.125)

A plated brass pillar mounted on Bakelite base supporting two pith balls in unspun silk.



**Pith Ball, Spare** (ELP.108.126)

For electroscope, assorted sizes, Pack of 10.



**Butterfly net, Faraday's** (ELP.108.127)

To show that electrical charge resides on external surface of a conductor. Sprayed fabric net with cord on insulating pillar with metal base. Overall height 35 cm. approx.



**Electrostatic Kit (1/16 Nuffield kit)** (ELP.108.128)

Comprises of 1 electroscope, 4 metallized polystyrene spheres, 1 each reel nylon, cellulose acetate strip, polythene strip, wire stirrup, rubber cloth, wire hook, electrophorous on handle and proof plane, 2 each of polythene tiles and aluminum cans.



**Faraday's Pails** (ELP.108.129)

Set consist of 4 nesting aluminium cylindrical containers each fitted with insulating feet. Sizes for each vessel are 150 mm. dia. x 120 mm high, 120 mm. dia. x 110 mm. high, 90 mm. dia. x 90 mm. high, 75 mm. dia. x 75 mm. high.

**Electric Whirl** (ELP.108.130)

For demonstrating the effect of electric discharge from points. The apparatus has a 60 mm. diameter, Three-pointed star wheel with all the points curved in one direction. The wheel rotates freely on a pivot point mounted on a short stand and the stand is provided with a 4 mm. connection on its round moulded base.

# Effective Laboratory Supplies



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# PHYSICS



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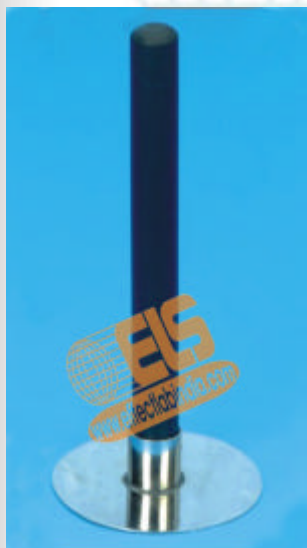
### Leyden Jar (ELP.108.131)

Glass vessel, with removable metal internal and external coatings. Minimum height x diameter 10x7 cm. Inner metal coating in form of inverted cup to which a rod is fixed.



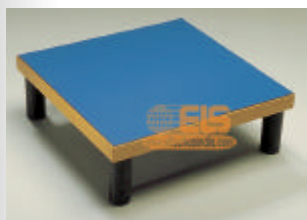
### Proof Plane (ELP.108.132)

Plated brass disc 25 mm. dia. mounted on a metal shaft and fitted to a 6 mm. insulating handle, overall length 15 cms.



### Insulated Stool (ELP.108.133)

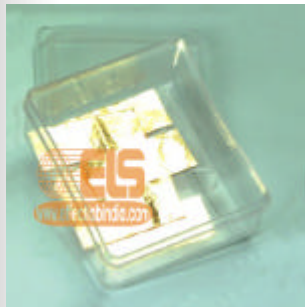
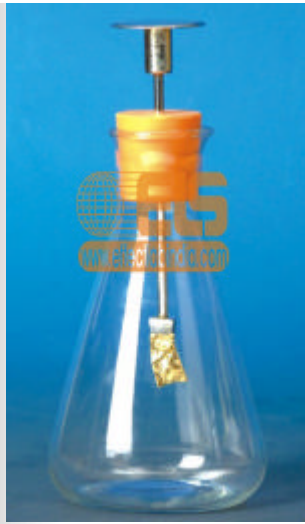
Square 30 x 30 cms. size.



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### Electroscope "Goldleaf" (ELP.108.134)

A glass conical flask, brass rod with disc and gold leaf attached, supported in cork with polythene insert.



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**Gold Leaves** (ELP.108.135)

For electroscope, spare, Pack of 6.

**Gold Leaf Electroscope** (ELP.108.136)

Rectangular case and polythene insulated lid with finger flap to facilitate removal. Case fitted with 4 mm. earthing socket is tapped ,in base to take support rod. Front glass window slides up to allow insertion of ionising material in chamber, .and gold leaf support plate and aluminium scale with 6 radial notches of 10° are provided, with one pair of leaves.

**Conductor Set of 3** (ELP.108.118.02)

Made of brass, interchangeable on pillars, fitted with insulators' of ebonite, Sphere 5 cm. dia., Cylinder 12.5x5 cm. dia., Cone 10x 5 cm. length x diameter.

- .01 Individually Mounted on metal base
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**Electroscope Kit** (ELP.108.141)

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For experiments of electroscope and other related studies such as electrostatic induction, the nature of charge in a body. Faraday's ice pail experiment. etc. pair of flask type electroscope, two each discs and all terminals, one Faraday's ice pail. Spare foil leaf pairs included. With instructions.