

## Electrostatics

### See Appendix F - Electric Charges Experiments

#### Coulomb Meters

<b>A</b>	1035699	Coulomb Meter Digital 1 - 1999nC	\$125.00
Measures accurately the electrical charge or quantity of electricity. Measure to 1999nC (nano Coulombs)			
	1055028	Coulomb Meter Kit	\$12.00
<b>B</b>	1014093	Coulomb's Law Apparatus	\$135.00
This unit permits verification of the inverse square law. Closure with internal mirror and scale, balls and thread etc... Instructions!			

#### Electrophorus

<b>C</b>	1035490	Electrophorus Brass 50mm	\$30.00
<b>D</b>	1035491	Electrophorus Brass 100mm	\$36.00
<b>E</b>	1035492	Electrophorus Brass 150mm	\$39.00
Produce strong electrical charges by induction Large metal disc collects the charge by rubbing base with sheeting.			

#### Electroscopes

Used to show an electrical charge physically by movement.

<b>F</b>	1052028	Electroscope Gold Leaf Large	\$40.56
Shows that two similarly charged objects will repel. Bigger than most and has open cup on top. 16 x 10cm base x 20cm high			
	1035562	Electroscope Gold Leaf Spare pkt/3	\$6.00
<b>G</b>	1052029	Electroscope Metal Vane Large	\$33.80
Show two similarly charged objects repel.			
<b>H</b>	1035603	Electroscope Metal Vane Type	\$29.50
Show how two similarly charged objects repel. This classic device features an Aluminium case with glass sides. Aluminium leaves hang from hooks for maximum sensitivity. Includes: pair die-cut leaves and hanger.			
<b>I</b>	1104004	Electroscope Polarity Detecting	\$15.50
Will detect and identify positive and negative charges. Indicates with red or green LED glow.			

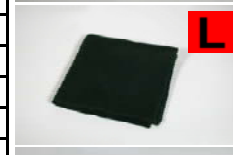
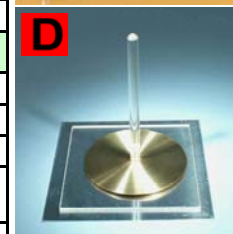
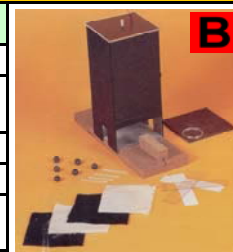
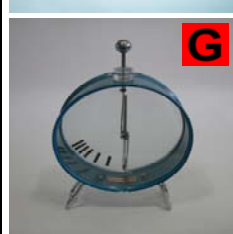
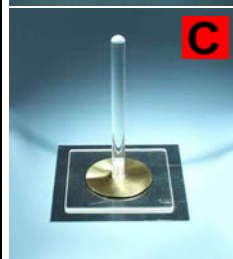
#### Electrostatic Cloths and Pith Balls

<b>J</b>	1010141	Electrostatic Cloth Cotton 30x30cm	\$1.62
<b>K</b>	1099013	Electrostatic Cloth Flannel 30x30cm	\$2.70
	1010498	Electrostatic Cloth Silk 30 x 30cm	\$3.38
<b>L</b>	1010142	Electrostatic Cloth Wool 30 x 30cm	\$2.43
<b>M</b>	1099019	Electrostatic Cloth Set 3 Co/FI/Wool	\$8.50
<b>N</b>	1141001	Electrostatic Fur Rabbit	\$4.06
<b>O</b>	1035656	Electrostatic Pith Balls Conductive Coated 12mm Diameter pkt/12	\$5.70
	1014094	Electrostatic Pith Balls Fluoro pkt/12	\$6.00
<b>P</b>	1010469	Electrostatic Pith Balls mounted on Brass stand plastic base	\$9.46
<b>O</b>	1035738	Electrostatic Pith Balls Plain 12mm Diameter pkt/12	\$3.50

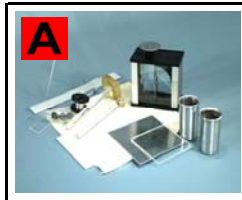
#### Electrostatic Rods

When rubbed with different types material SOME produce static electricity. Investigate which/why. Most 300 x 12mm with rounded ends.

	1140004	Electrostatic Rod Acrylic 300 x 5mm	\$1.80
<b>Q</b>	1140001	Electrostatic Rod Acrylic 300x12mm	\$4.06
<b>R</b>	1035700	Electrostatic Rod Brass/Acryl.30cm	\$20.00
<b>S</b>	1010129	Electrostatic Rod Ebonite	\$3.38
<b>T</b>	1010130	Electrostatic Rod Glass	\$3.38
<b>U</b>	1035866	Electrostatic Rod Nylon 300 x 10mm	\$6.50
<b>U</b>	1035604	Electrostatic Rod Polystyrene 300mm	\$5.10
	1035605	Electrostatic Rod Polythene 300mm	\$5.00
	1010131	Electrostatic Rod PVC 300 mm	\$3.00



## Electrostatic Kits



<b>A</b>	1035303	Electrostatics Kit	\$110.00
Advance "Nuffield" style. For student investigation into electrostatic forces. Includes: metal vane, Polystyrene balls, nylon filament, Acetate and Polythene strip, Stirrups, Cloth, Proof plane, Poly tiles and Aluminium cans.			
<b>B</b>	1035632	Electrostatics Kit - PSSC Type:	\$36.00
Simple. Consists of Polystyrene balls, Cotton and wool cloth, wood peg, Nylon filament, brush, Graphite, insulators, pins, Acetate strip and Vinyl strip.			



## Faraday Cage



<b>C</b>	1055042	Faraday Cage:	\$20.00
Demonstrate a charge cannot exist inside a conductor cage. Stand and cover supplied.			

## Galvanometer

	1155002	Galvanometer 'Edspot' W.P.A.	\$2,100.00
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## Leyden Jar Dissectible.

<b>D</b>	1055013	Leyden Jar Dissectible.	\$20.28
Charge it, dissect it, holds the charge for hours. Prove that a charge is stored in the dielectric insulator not in the metal surfaces. Includes: 2 Aluminium cans, Polystyrene dielectric, electrode with ball terminal. After charging the conductors electrode removed and the charge measured.			



<b>Plasma Nebula</b>			
<b>E</b>	1127005	Plasma Nebula Lighting Globe PAT TESTED	\$58.00

## Proof Plane

<b>F</b>	1035304	Proof Plane Flat Disc 20mm diameter	\$8.80
<b>F</b>	1035305	Proof Plane Spherical Head 25mm diameter	\$15.00

For collecting & transferring of electrostatic charges.



## Van De Graaf Generators

Used for electrostatic experiments and work. Continuous source of high voltage. VDG Generators should always be stored away from corrosives and in dust free cool cabinet with a dust cover. If problem generating quality spark wash the dome, belt and rollers in warm detergent, rinse and dry. Also use a hair dryer or similar if humidity is high while operate.

<b>G</b>	1052222	Van De Graaf Generator Complete.	\$398.00
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240V. Power via power supply or included hand crank. Large spark 400kV . Operates in HIGH humidity Every time!

This unit is not only COMPETITIVELY priced it has all these EXTRAS.

1. Always gives a powerful spark even in high humidity. (Queensland)
2. Powered from the DC source by laboratory power supply up to 12v. This allows control of speed of belt and charge. No direct 240V risk.
3. 400kV with large dome and discharge rod.
4. Two accessories included: Hank of hair and Electric whirl.
5. Hand crank included. One turn only and watch spark fly.
6. Complete back up of spare parts available for future repair.
7. Shown at teacher conferences and teachers impressed.
8. Save \$100.00 (minium) against other comparative models.

	1035873	Van De Graaf Generator Large 12V AC 400kV	\$410.00
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<b>H</b>	1035310	Van De Graaf Generator Large	\$440.00
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Variable speed. 400kV. Large dome with discharge rod. 240/220v AC. Parts and accessories available.

<b>I</b>	1035872	Van De Graaf Generator Large	\$480.00
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LARGE, NEW MODEL Variable speed. 400kV, 220/240V.AC . High quality, compact design, with removable cover for full access to the belt, adjustable belt tension, DC motor and belt drive with excellent torque and speed.

<b>J</b>	1035311	Van De Graaf Generator Small Variable speed 200kV	\$450.00
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<b>K</b>	1055038	Van De Graaf Generator Small	\$245.00
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This unit operates from a student power supply (1035411A) and generates a very powerful spark. Low cost. 40KV. The teachers that have seen this unit are very impressed with the quality and the output.

## Van De Graaf Generator Accessories

	1052222Z	Accessory Kit	\$19.50
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Comes with 1052222T Hank hair & 1052222W Point discharge. Suggest you add other accessories for Multi display.

<b>L</b>	1035556	Accessory Kit Set of 7 pieces	\$120.00
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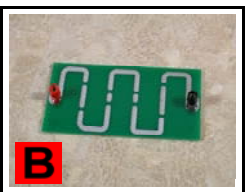
Head of hair mounted to a 4mm banana plug. Neon lamp in a holder that glows when pointed close to the charged VDG. Faraday pail for electrostatic experiments. Insulating rod etc...

<b>M</b>	1035332	Faraday Pail	\$18.00
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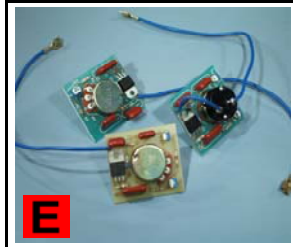
<b>A</b>	1052222T	Hank of hair	\$18.00
Shows how hair stands up as the charge builds.			
<b>B</b>	1052222S	Lightning Leaper	\$20.00
Demonstrates Discharge by leaping across metal strips laid flat with gaps.			
	1052222U	Neon Lamp on Screw	\$19.50
Neon lamp lights up when in the electrostatic field. HT wire demonstration			



	1035333	Plastic Rod with Cotton Ball	\$13.00
<b>C</b>	1052222V	Point Discharge Whirler	\$29.00
Point Discharge Whirler Unit whirls when placed in the field			
	1052222W	Point Discharge Pin	\$25.00
<b>D</b>	1052222Y	Vibrating Balls/Volta's Hailstorm	\$32.00



Van De Graaf Generator Spares			
	1035329	Van De Graaf Generator Spare Ball Upper 200mm 200kV	\$51.00
	1035313	Van De Graaf Generator Spare Belt 512x55mm (400kV)	\$17.50
	1035314	Van De Graaf Generator Spare Belt jointless 200kV	\$16.50
	1035765	Van De Graaf Generator Spare Black Collar	TBA
	1035327	Van De Graaf Generator Spare Combs Clip On pair	\$8.00
	1035321	Van De Graaf Generator Spare Combs Rubber old models	\$9.00
	1035315	Van De Graaf Generator Spare Discharge Ball & Handle	\$79.00
	1035328	Van De Graaf Generator Spare Discharge Ball Only 75mm	\$30.00
	1035816	Van De Graaf Generator Spare Handle Only Dis/Ball	TBA
	1035320	Van De Graaf Generator Spare Pulley Bottom-all model	\$28.30
	1035319	Van De Graaf Generator Spare Pulley Top-all models	\$31.60
	1035323	Van De Graaf Generator Spare Speed Control Rheostat	\$30.50
<b>E</b>	1035324	Van De Graaf Generator Spare Speed/Torque Control	\$42.90
	1035326	Van De Graaf Generator Spare Tube Acrylic 200kV	\$43.00
	1035318	Van De Graaf Generator Spare Tube Acrylic 400kV	\$45.00
	1052222D	Van De Graaf Generator Spare Base Plate Replacement	\$49.00
	1052222F	Van De Graaf Generator Spare Base System	\$21.50
	1052222G	Van De Graaf Generator Spare Bearing Holder	\$39.95
	1052222B	Van De Graaf Generator Spare Belt 400mm Diam. x 55mm Width	\$15.00
	1052222K	Van De Graaf Generator Spare Belt for hand crank	\$15.00
	1055038A	Van De Graaf Generator Spare Belt for model 1055038	\$15.00
	1052222Q	Van De Graaf Generator Spare Belt for motor to unit.	\$10.00
96mm Diam x 5mm Thick.			
	1052222J	Van De Graaf Generator Spare Discharge Sphere	\$49.95
	1052222A	Van De Graaf Generator Spare Earthing cable	\$12.00
To protect other equipment from electrostatic waves.			
	1052222H	Van De Graaf Generator Spare Hand Crank Replacement	\$40.00
	1052222M	Van De Graaf Generator Spare Large Dome Replacement	\$75.00
	1052222C	Van De Graaf Generator Spare Lower Brush Replacement	\$21.00
	1052222L	Van De Graaf Generator Spare Lower Holder	\$32.00
	1052222N	Van De Graaf Generator Spare Lower roller system	\$77.00
	1052222I	Van De Graaf Generator Spare Main tube	\$49.50
For protection from the Belt.			
	1052222E	Van De Graaf Generator Spare Motor that drives the Belt	\$98.00
	1052222O	Van De Graaf Generator Spare Upper Bearing System	\$59.95
	1052222P	Van De Graaf Generator Spare Upper Holding System	\$49.50
	1035322	Van De Graaf Generator Upgrade Kit	\$80.00
For IEC older models especially with belts with join. CONTENTS: Top pulley & bracket assembly, Moulded plastic collar for assembly, top comb, rubber belt, Instructions.			



**Any Spares needed will be supplied on Request!**  
**See Our Website at <http://www.serrata.com.au> for full details!**  
**Ring for any technical advise!**

Wimshurst Machine			
<b>F</b>	1052338	Wimshurst Machine	\$198.00
The Wimshurst Machine is Electrostatic Generator. 75mm Maximum Spark produced. Teaching Concepts: Induction; Electrostatic repulsion/attraction, Charging/discharging through sparks. Instructions Included.			
	1052338A	Wimshurst Machine Metal Strips SET	\$35.00
	1052012	Wimshurst Machine Spare Belt 15cm Diameter	\$8.50
	1052338B	Wimshurst Machine Spare Brushes Set	\$15.00

