



**HAINES**  
EDUCATIONAL



TERM FOUR

# SNAPSHOT SPECIALS

Welcome to Term 4 2024! Included in this edition is a selection of our essentials to kickstart the term.

ISSUE 1 - VOLUME 8 - 2024

PLEASE FORWARD TO THE SCIENCE COORDINATOR

## CRITICAL MINERALS KIT BY TESEP

Introducing the New TESEP Australian Critical Minerals Kit. Comprising of 26 minerals used in our high-technology lives. Includes extensive teaching material including 3D renders/virtual images, detailed mineral facts and background, student questions and stories. This kit is made in Australia.



NEW PRODUCT

T850  
**\$295**  
each

## WATER STILL, 4L

**Produce distilled water at your convenience.** This compact and sturdy water still is simple to operate. No filters or consumables required.



WATDIS  
**\$595**  
each

## MOLECULAR ORBITAL SET

This set helps visualise the shapes of atomic and molecular orbitals. Contains enough individual parts to build 14 distinct models.

Each model comes with a transparent base for display.



C614  
**\$95**  
each

## STUDENT CLASSROOM THERMOMETERS - SET OF 12

16.5cm X 2.5cm spirit filled glass thermometers. -40 to 50°C, White with PVC backing.



NEW PRODUCT

L1200  
**\$44<sup>50</sup>**  
each

## MATERIALS TEST KIT

In wooden case with removeable plastic cover. Case is 17cm x 17cm.

Iron, Steel, Aluminium, Wood, Polythene, Brass, Rubber, Copper, Wool, Nylon, Cork, Lead, Zinc, Carbon, Glass, PVC, Cotton, Cardboard, Perspex and Nickel.



NEW PRODUCT

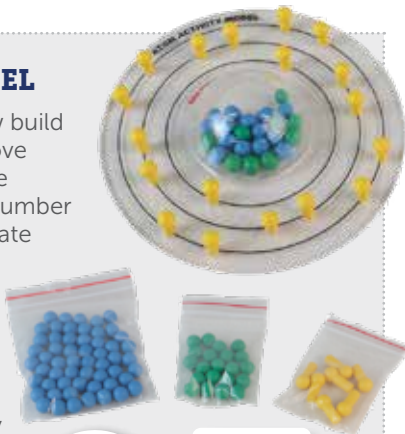
PH0798C  
**\$48<sup>90</sup>**  
each

## ATOM ACTIVITY MODEL

So easy for students to now build their own atoms. Add/remove neutrons and protons to the nucleus. Peg the required number of electrons in the appropriate shells.

A brilliant aid to student understanding of atomic structure.

Can be used on the overhead projector for easy class demonstration. Cheap enough for class sets. Model 15cm wide.



ORDER A CLASS SET NOW

PRO03  
**\$49<sup>50</sup>**  
each

## AUSTRALIA ROCK KIT AND PLATE TECTONICS POSTER

A safe, large 29pc rock set especially designed for Australian schools as part of the Teacher Earth Science Education Programme (TESEP). Includes one free registration to a TESEP professional development workshop.



TESEP

T339  
**\$415**  
each



SCAN HERE FOR VIDEO

Prices do not include GST



**HAINES EDUCATIONAL** 1/82 Lewis Road, Wantirna South VIC 3152  
1300 330 232 ✉ sales@haines.com.au 🌐 haines.com.au

**BEST PRICE GUARANTEE**



FIND A LOWER PRICED IDENTICAL PRODUCT AND WE WILL MATCH IT!\*

\*Conditions Apply



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Visit our website [www.haines.com.au](http://www.haines.com.au)

### NON-CONTACT THERMOMETER, -50°C TO 500°C

A safe way to measure temperatures in hard to reach places. Simply aim the built in laser at the target and read the temperature from backlit LCD screen.

GM310  
**\$77<sup>60</sup>**  
each



### RADIATION CANS, SET/3

Investigate how colour can influence absorbing and radiating energy. This set of three 500mL metal cans are finished with black, white, and silver exteriors. Stoppers accommodate a thermometer (not included).

P927  
**\$35<sup>80</sup>**  
set



### CORROSIVE CABINET, POLYETHYLENE, 100L

This high density polyethylene safety cabinet designed for storing up to 100 litres of Class 8 Corrosive Substances. **With center divider so you can store all your acids and bases together.** Designed and manufactured in Australia and in conformance with the Australian Standards.



OTHER SIZES AVAILABLE

L8701  
**\$2685**  
each

### BIODEGRADABLE NITRILE GLOVES, 200/PACK

Made from synthetic rubber these eco friendly gloves offer the ultimate hand and environmental protection.

SIZE	DESCRIPTION	UNIT	PRICE \$
BNGS	Small Nitrile	box/200	19.00
BNGM	Medium Nitrile	box/200	19.00
BNGL	Large Nitrile	box/200	19.00
BNGXL	Extra Large Nitrile	box/200	19.00

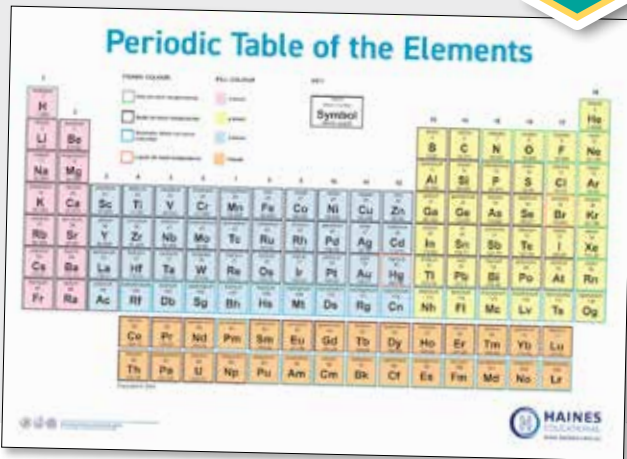


ALL SIZES  
**\$19**  
box

### HAINES PERIODIC TABLE CHART, 120X85CM

A must have for every Science class and large enough to be seen from the back of the classroom! **Made in Australia from recyclable synthetic paper.**

C982  
**\$59<sup>80</sup>**  
each



### MICROSCOPE, DIGITAL WITH SCREEN, 1200X

This digital microscope with up to 1200X zoom enables you to inspect and get a close-up view of your biological-related object.

G537  
**\$299**  
each



### ENERGY STICK

BEST SELLER

This item is a great introduction to the science of circuits and electricity! Conduct electrical energy through your students. Make a human chain by holding hands then add the ENERGY STICK into the circle and watch it light up.

P325  
**\$32<sup>50</sup>**  
each



### SOLAR ECO-HOUSE KIT

Construct a solar house and perform 10 experiments with this all-inclusive educational kit! This fascinating kit will ensure you find the answer to those key questions around solar energy.

SFY-91635  
**\$38**  
each



### POWER SUPPLY

BEST SELLER BEST VALUE

For banana plugs and alligator clips, with front mounted on/off switch, overload trip. Output Range/Max : 2-12V AC, 2-12V DC/5A

2633001  
WAS \$210  
NOW **\$189**  
each



Prices do not include GST



**BEST PRICE GUARANTEE**



**FIND A LOWER PRICED IDENTICAL PRODUCT AND WE WILL MATCH IT!\***

*\*Conditions Apply*



**HAINES EDUCATIONAL**

**OMEGA DISHWASHER WITH TEST TUBE RACK**

BEST VALUE

The dishwasher's compact design features the electronic control panel at the top of the door for easy selections. Comes with stainless steel interior and multiple hoses.



L101CDF  
**\$1050**  
each

IDEAL FOR CLASSROOM SETTINGS

**LABORATORY COATS**

BEST VALUE

Top quality, cotton polyester, press button studs. Available in white and navy blue.

White		Navy Blue	
XX-Small	LCNXXS	XX-Small	LCNXXSB
X-Small	LCNXS	X-Small	LCNXSB
Small	LCNS	Small	LCNSB
Medium	LCNM	Medium	LCNMB
Large	LCNL	Large	LCNLB
X-Large	LCNXL	X-Large	LCNXLB
		XX-Large	LCNXXLB



WHITE  
WAS \$27<sup>90</sup>  
NOW **\$25<sup>50</sup>**  
each

BLUE  
WAS \$29<sup>90</sup>  
NOW **\$25<sup>50</sup>**  
each

NO MINIMUM ORDER QUANTITIES!

**3 LAMP BOARD, PARALLEL & SERIES**

Discover more about circuitry with this three lamp board. It includes both parallel and series circuits which can demonstrate the transfer of electricity in different orientations. The three mini receptacles are mounted on a clear acrylic base, and buss bars connecting the receptacles allow for quick changing from parallel to series and many combinations of the two. Instructions included.



7-1200-1  
**\$22**  
each

**5 LAMP BOARD, PARALLEL & SERIES**

An easily convertible five lamp board with both parallel and series circuits.



7-1200-14  
**\$28**  
each

**ELECTRIC EXPERIMENT CAR**

Study energy conversion and motion. By changing the layout of the battery holders you can compare and test parallel and series connections. A perforated board used as the car base body makes it easy to add parts. A bulb and propeller is included for further applications. Batteries not included.



G812  
**\$19<sup>90</sup>**  
each

**TEST TUBE, GRADUATED, GLASS, 150 X 18MM, PK/50**

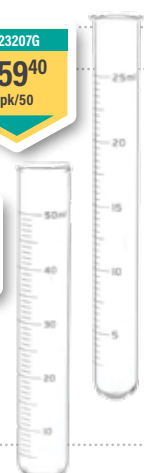
Graduated test tubes, 3.3 borosilicate glass, with rim. Sold as a pack of 50.

123207G  
**\$59<sup>40</sup>**  
pk/50

**TEST TUBE, GRADUATED, GLASS, 150 X 24MM, PK/50**

Graduated test tubes, 3.3 borosilicate glass, with rim. Sold as a pack of 50.

123212G  
**\$97<sup>80</sup>**  
pk/50



**LARGE DNA MODEL**

A super-sized plastic DNA model, pre-assembled and built to a scale of 10cm to 1m. Stands over 60cm tall!



B02018  
**\$135<sup>80</sup>**  
each



**WATER FILTRATION KIT**

Water goes on quite a journey to reach our taps, safe and ready to drink. One of the many important steps in the process is filtration. The kit introduces how water gets cleaned by building a simple filtration system and more.

G055  
WAS \$45  
NOW **\$35**  
each



Prices do not include GST



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Visit our website [www.haines.com.au](http://www.haines.com.au)

### SLINKY SPRING, 80X80MM

Watch as it walks down stairs, 'bounces' back and forth between your hands and appears to defy gravity when dropped to the ground.



MAS-01923

**\$26<sup>50</sup>**  
each

### GARDEN/SOIL TESTER, 3-IN-1

The 3-in-1 marvel that lets you measure pH, light, moisture at the same time. No battery required, and easy to measure moisture value of soil, plants, garden, vegetables, trees and more.



44102

**\$22<sup>90</sup>**  
each

### SINGLE HOT PLATE

**BEST SELLER**

Portable stainless steel electric hotplate. Sealed single-plate design. Designed to meet Australian Standards.

- Power :1500W
- Stainless steel finish with diecast heating element
- Thermostat Control
- Automatic Safety Shut-off with Thermal Fuse
- Power Indicator Light
- Plate : 185mm diameter
- Overall : 460 x 260 x 65mm (L x W x H)



HP1

**\$63<sup>50</sup>**  
each

### PROJECTILE LAUNCHER

Durable and unbreakable. Spring loaded gun-type launcher allows you to shoot the metal balls from horizontal to 90°. Includes assembled spring loaded gun, two balls of aluminium, protractor, plumb bob and operating instructions.

Spare ball sets available.



PH100

**\$99**  
each

### SPECTROSCOPE WITH GRADUATED SCALE

This direct vision student spectroscope, fitted with a high efficiency grating in the eyepiece produces a brilliant spectrum even in poor light.



P5980

**\$42<sup>50</sup>**  
each

### DYNAMICS CART

The IEC 'Dynamics Carts' are the best in the business and they last many years. They have inboard wheels to avoid tangles, they are the strongest and are most rigid, they offer the least rolling friction and are safer than others.



MF0945001

**\$175**  
each

**MADE IN AUSTRALIA!**

### NEWTON'S FAN

The Newton Fan may be used in conjunction with most dynamic carts or trolleys to not only verify Newton's Second Law, but to also confirm that the law still applies when the mass or the propulsion force of the cart is varied.



SCAN HERE FOR VIDEO

JUPNF

**\$99**  
each

### POWER MICROPHONE

The power microphone has been designed to provide powerful signals in an easy and quick manner to your oscilloscope (BNC plug connects directly to a Digital Storage or Cathode Ray Oscilloscope.)



JUPPM

**\$59<sup>80</sup>**  
each

### LIGHT SOURCE COLOURED, BUNDLE PACK (LIGHT SOURCES SET + PRISM/LENSES)

This set of 3 coloured lights (red, green blue) is a simple and effective way to explore light and optics. Enables students to perform and comprehend some of the properties of light. Attaches to a whiteboard or use on a table. Batteries and suggested experiments included.



P6079

**\$75<sup>90</sup>**  
each

Prices do not include GST





### LAB BOTTLE, GLASS, SCREW CAP

These transparent glass reagent bottles with screw-top lids are sure to keep your mixtures safe. Made from quality Borosilicate 3.3 Glass which resists chemical corrosion, and is resistant to sudden temperature changes.

CODE	VOLUME	UNIT	PRICE
RBSC25	25ml	each	5.50
RBSC50	50ml	each	6.90
RBSC100	100ml	each	6.50
RBSC250	250ml	each	6.90
RBSC500	500ml	each	9.80
RBSC1000	1000ml	each	13.90
RBSC2000	2000ml	each	37.80



FROM  
**\$5.50**  
each

### REAGENT BOTTLE, AMBER GLASS, SCREW CAP

CODE	VOLUME	UNIT	PRICE
RBSC100A	100ml	each	7.60
RBSC250A	250ml	each	9.50
RBSC500A	500ml	each	13.80
RBSC1000A	1000ml	each	19.50



### RETORT STAND KIT

BEST SELLER

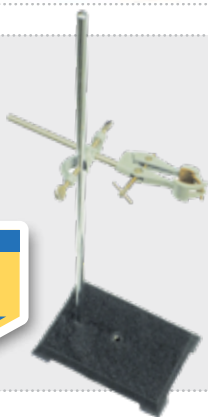
A must for every lab.

1 x Retort stand (base is 200x140mm, rod is 600mm tall)

1 x Bosshead

1 x Retort clamp, 4 prong (250mm in length, jaws open up to 76mm)

LC103  
**\$42.50**  
each



### ADAM ELECTRONIC / BALANCE 1200 X 0.1G

BEST SELLER

CBX1201

**\$177**  
each

Portable and durable balance, 1200g x 0.1g. With rechargeable battery and AC power and a large 15cm pan makes it ideal for educational settings.



### BUNSEN BURNER KIT (NATURAL GAS)

A must for every lab.  
1 x Bunsen Burner (Nat. Gas)  
1 x Bunsen silicon tubing  
1 x Gauze mat, plain  
1 x Tripod stand



Also available for LPG Burners see LC104L

### ADAM ELECTRONIC BALANCE 6000 X 1G

CBX6000

**\$150**  
each

Portable and durable balance, 6000g x 1g. With rechargeable battery and AC power and a large 15cm pan makes it ideal for educational settings.



### PLASTIC LABORATORY TRAY

Multipurpose laboratory trays are suitable for a range of applications, including washing, sterilizing, and drying glassware and other laboratory instruments. Moulded from heavy duty plastic and resistant to most chemicals.



ZL007  
**\$23.90**  
each

### MICROSCOPE, SENIOR, MONOCULAR

40 to 1000 x magnification, mechanical stage, achromatic, parfocal & parcentered objectives, variable light intensity, binocular head, 4 objectives, extra large body.

ELITE(M)  
**\$560**  
each



### MICROSCOPE, SENIOR, BINOCULAR

An ideal senior microscope. Durable and ideal for student use. 40 to 1000 x magnification, mechanical stage, achromatic, parfocal & parcentered objectives, variable halogen light intensity, iris diaphragm, abbe condenser, binocular head, 4 objectives: 4x, 10x, 40x, 100x, extra large body and 3 year warranty.

ELITE(B)  
**\$665**  
each



Prices do not include GST



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### SQUARE REAGENT PLASTIC BOTTLES

Suitable for all kinds of liquid storage. Translucent, rigid and excellent contact clarity. The square shaped bottle allows for more compact storage and stacking.

#### REAGENT BOTTLE, SQUARE, NARROW MOUTH

Narrow mouth, square shaped reagent bottles made from durable HDPE with a screw cap.

CODE	VOLUME	UNIT	PRICE
3200030	30ml	each	2.30
3200100	100ml	each	2.90
3200250	250ml	each	5.20
3200500	500ml	each	8.50
3201000	1000ml	each	11.90



#### REAGENT BOTTLE, SQUARE, WIDE MOUTH

Made from polypropylene

CODE	VOLUME	UNIT	PRICE
432060	60ml	each	2.80
432125	125ml	each	3.20
432250	250ml	each	5.20
432500	500ml	each	8.40
431000	1000ml	each	11.60



### STORAGE BOTTLE, PLASTIC

Made of HDPE and suitable for all kinds of liquid storage. Tamper evident leak proof cap.

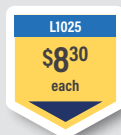
#### SQUARE HDPE, SCREW CAP, WHITE PLASTIC, BLUE CAP

CODE	VOLUME	UNIT	PRICE
783180	180ml	each	4.55
783500	500ml	each	6.50
783250	250ml	each	5.50
783900	900ml	each	7.20
7831200	1200ml	each	7.90



### WASH BOTTLE, BLANK LABEL

Chemical wash bottle with blank labels, 500ml capacity.



### WASH BOTTLE, DISTILLED WATER

Each empty wash bottle is labeled for Distilled Water and features chemical information as well as hazard and safety information.



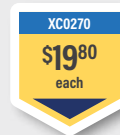
### JERRY CAN, HDPE, WITH LID

Ideal for all your solutions. Rectangular shape means easy and efficient storage.

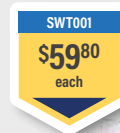


### STOPWATCH, DIGITAL, 0.01S, HEAVY DUTY

BEST SELLER



Accurate, portable and heavy duty. A best seller!

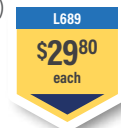


### STOPWATCH / COMPASS TRAY

Neatly arrange and store your stopwatches and compasses.

### FUNNEL STAND, SINGLE, WOODEN

This polished wooden funnel stand comes with clamping screws for adjusting the height. Size: 49(L) x 12.5(W) x 2.5(H)cm. Base: 20(L) x 11(W) cmbeakers or other vessels. Sold individually.



### FUNNEL STAND, WOODEN, DOUBLE

This double polished wooden funnel stand comes with clamping screws for adjusting the height. Size: 49(L) x 12.5(W) x 5(H)





## STIRRER/HOT PLATE



2090001

\$540  
each

A general purpose laboratory magnetic stirrer & hot plate with 'Simmerstat' temperature control and high temperature alloy plate for even plate temperature. Comes with plain or PTFE-coated hot plate.



## SAFETY GLASSES, LABPRO

Vented side arms. Large hard polycarbonate lens & arms. Hard scratch resistant coated



359SC

\$590  
each

## SAFETY GLASSES, ARC VISION

Made from hard coated polycarbonate lens and UV treated.



900070

\$450  
each

## SAFETY GLASSES RACK

Stores and dispenses safety glasses easily. Delivered 'flat packed', requires assembly. Australian made.



SGR001

\$116<sup>80</sup>  
each



## CLINOMETER

Teach students how to measure the angle of elevation of objects with the simple pull of the clinometer's trigger. Constructed of a tough, yet lightweight, plastic material. Clear instructions for use printed directly on instrument. Instruction sheet provided.

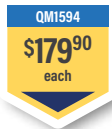


M08140

\$41<sup>90</sup>  
each

## MULTI-TEST METER

- Multimeter (CAT III)
- Sound/Light level/ Temperature & Humidity meter
- Ideal for all your classroom applications



QM1594

\$179<sup>90</sup>  
each



## MULTI-TEST PH METER

Comes complete with relevant electrodes, batteries and operational instructions.

pH Range/Resolution: 1 to 15 pH, 0.01 pH  
EC Range/Resolution: 0-2000 µS, 2- 20mS / 0.1 µS, 1 µS, 0.01mS  
TDS Range/Resolution: 0-1000 ppm, .1-10 ppt / 0.1ppm, 1ppm, 0.01ppt  
Salinity Range/Resolution: 0-10 ppt, 0.10 ppt  
Temperature Range/Resolution: 0 to 60°C, 0.1°C

ELITEPCTS

\$475  
each



## INCUBATOR, 120L, FAN FORCED

Incubator, 120L, 465 x 485 x 970mm external. Designed and manufactured in Australia. Economical, reliable and with a compact footprint, this benchtop incubator is the perfect inclusion to your lab's set-up.

TI-120F

\$3,490  
each

Internal Dimensions (HxWxD mm):  
395 x 405 x 735

External Dimensions (HxWxD mm):  
465 x 485 x 970

Temperature Range Ambient +5°C  
to 60°C

Capacity (litres): 120

Shelves: 6

Electrical (W): 290

Weight (kg): 45



## DRAINING RACK, BENCH/WALL MOUNTED, 32 PLACE

Sits on the bench or mount it on a wall. Size is 360x500mm, 32 pegs (70mm long). Nylon coated wire.



DR10

\$135  
each

## DIGITAL BENCH BALANCE



This precision 1000 x 0.01g balance comes supplied with a wind shield and a built-in bubble level to provide maximum accuracy. Requires 4 x AA batteries (not included) or mains adaptor (included).

- Auto power-off after 60 sec
- Automatic calibration
- Backlit LCD
- Tare and counting function
- Mains powered



QM7264

\$195  
each

## DISINFECTANT SURFACE WIPES

A gentle, handy and convenient cleaning wipe that is great for everyday use. Kills 99.9% of bacteria. 280 sheets in a tub.

W175

\$48<sup>30</sup>  
each





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### METRIC RULER, WHITE ACRYLIC, 1M

Ruler 1m, plastic (Acrylic)



113437  
**\$18<sup>90</sup>**  
each

### METRIC RULER, WOODEN, BRASS ENDS, 1M

Ruler 1m, wooden, brass ends

BEST SELLER



GE394501  
**\$14<sup>90</sup>**  
each

### METRIC RULER, STAINLESS STEEL, 1M

Ruler 1m, stainless steel



TL0300  
**\$25<sup>80</sup>**  
each

### GAUZE MATS



Wire, galvanised, 15cm square, plain

50201  
**\$24<sup>90</sup>**  
pk/10



Wire, galvanised, 15cm square, ceramic centre\*  
*\* asbestos-free, certification included*

502101  
**\$29**  
pk/10

### BUNSEN BURNER STANDARD LPG OR NATURAL GAS

Base/tube diameter: 85 x18mm, 130mm (H)

BEST SELLER

MA1230L  
**\$19<sup>90</sup>**  
LPG

MA1230N  
**\$19<sup>90</sup>**  
NATURAL GAS



### BUNSEN TUBING

- Neoprene
- Non-slip strong tubing with reinforced ends
- Safe and secure connection of bunsen burners to gas taps
- Also suitable for condensers
- Length 900mm

L808  
**\$11<sup>90</sup>**  
each

L80810  
**\$108**  
pk/10

### BURETTES

GLASS, PTFE stopcock, schellbach. 50ml. Class A

UNBREAKABLE, CLEAR ACRYLIC ptfe stopcock 50ml

ROTAFLOW, GLASS 50ml, class A



86957  
**\$42<sup>50</sup>**  
each

957



811335  
**\$28<sup>50</sup>**  
each

811335



G1903GP  
**\$42<sup>90</sup>**  
each

G1903GP

### BURETTE CLAMP, ALLOY, SINGLE

Clamp, burette, alloy, single "Fisher" type

MA1393  
**\$21<sup>50</sup>**  
each



### BURETTE CLAMP, ALLOY, DOUBLE

Clamp, burette, alloy, double "Fisher" type

845162  
**\$26<sup>50</sup>**  
each



### WATER BATH - 14L

This water bath is designed to rest on and be heated by an IEC Hot Plate or Hot Plate/Stirrer (not included). Heating may be accomplished by manual stirring or by using a magnetic spin bar in conjunction with a magnetic stirrer/hotplate. Contact us for IEC hot plate/stirrer or thermometer.

- Stainless steel for superior durability & high thermal efficiency
- Thermometer (not included) required to monitor temperature if a temperature controller is not used
- Can also be used as a dry oven and will form an important part of IEC's new Gas Chromatograph

Internal Dimension : 260 x 180 x 125mm (L x W x H)



CH4240-001  
**\$253**  
each

NOTE: HOTPLATE NOT INCLUDED

### TEMPERATURE CONTROLLER

This thermostat fits over the edge of the IEC Water Bath to control the hot plate. This ensures that the water temperature in the water bath is maintained.



CH4240-101  
**\$189**  
each



**BEST PRICE  
GUARANTEE**



**FIND A LOWER PRICED  
IDENTICAL PRODUCT AND  
WE WILL MATCH IT!\***

*\*Conditions Apply*



**HAINES**



FROM  
**\$2<sup>30</sup>**  
each

**BOTTLES  
DROPPING, SCREW CAP**

Clear glass, with dropper

CODE	VOLUME	UNIT	PRICE
BS250	25ml	each	2.30
BS500	50ml	each	2.60
BS100	100ml	each	3.10

Amber glass, with dropper

CODE	VOLUME	UNIT	PRICE
BS250A	25ml	each	2.30
BS500A	50ml	each	2.60
BS100A	100ml	each	3.10

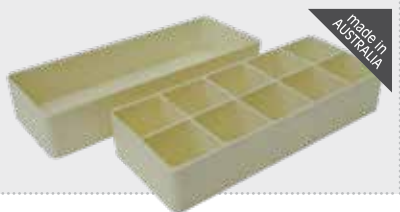
Spare dropper, for dropping bottle

CODE	VOLUME	UNIT	PRICE
BS251	25ml	each	1.30
BS501	50ml	each	1.40
BS601	100ml	each	1.60

**DABCO - UNITRAY**

Ideal for storing dropping bottles.

CODE	VOLUME	UNIT	PRICE
DUN102	With insert	each	6.50
DUN103	No insert	each	5.00



**STULL DROPPING BOTTLE  
STORAGE TRAYS**

CODE	VOLUME	UNIT	PRICE
TSB506	6 bottles 50/125ml	each	22.50
TSB5012	12 bottles 50/125ml	each	29.50



*\*Stull bottles not included*



**BOTTLES - STULL DROPPING, WITH STULL CAP  
CLEAR, POLYETHYLENE**

CODE	VOLUME	UNIT	PRICE	CODE	VOLUME	UNIT	PRICE
DB125S	125ml	pkt/50	82.00	DB1510	15ml	pkt/10	16.00
DB50S	50ml	pkt/50	65.00	DB1550	15ml	pkt/50	74.00
Stull cap only							
SC002	125ml & 50ml	each	0.90				

125ml 50ml 15ml



**NITRILE POWDER-FREE**

- Blue disposable nitrile powder-free
- High chemical resistance

CODE	DESCRIPTION	UNIT	PRICE \$
NGXS	Extra Small Nitrile	box/100	15.00
NGS	Small Nitrile	box/100	15.00
NGM	Medium Nitrile	box/100	15.00
NGL	Large Nitrile	box/100	15.00
NGXL	Extra Large Nitrile	box/100	15.00



**NITRILE LATEX, PAIR**

- A co-polymer of acrylonitrile & butadiene
- Flock lined & contoured for comfort
- Chemicals, oils, fuels & certain organic solvents resistant
- Puncture, cut & abrasion resistant

CODE	DESCRIPTION	UNIT	PRICE \$
AS229954	Nitrile latex	pair	12.90

**THERMOPLASTIC  
ELASTOMER (TPE)**

- Made of Elastomer & Polyethylene resin
- Soft & tear resistant, moulds to hands
- Safe, latex free & odourless
- Easy to remove, naturally powder free

CODE	DESCRIPTION	UNIT	PRICE \$
TGS	Small TPE	box/200	11.00
TGM	Medium TPE	box/200	11.00
TGL	Large TPE	box/200	11.00
TGXL	ExLarge TPE	box/200	11.00

**LATEX POWDER-FREE**

- Original hospital grade
- White disposable powder-free
- Superior chemical resistant

CODE	DESCRIPTION	UNIT	PRICE \$
LGXS	Extra Small Latex	box/100	15.00
LGS	Small Latex	box/100	14.00
LGM	Medium Latex	box/100	14.00
LGL	Large Latex	box/100	14.00
LGXL	Extra large Latex	box/100	14.00



**VINYL POWDER-FREE**

- Excellent alternative to latex
- Superior chemical resistance
- Note: Should not be stored above 30°C

CODE	DESCRIPTION	UNIT	PRICE \$
VGS	Small Vinyl	box/100	9.00
VGM	Medium Vinyl	box/100	9.00
VGL	Large Vinyl	box/100	9.00
VGXL	Extra Large Vinyl	box/100	9.00



**LAB COAT RACK - SINGLE RAIL**

Portable single rail rack for keeping your lab coats organised and crease-free. Mounted on sturdy heavy duty lockable wheels. Adjustable height as well as extendable ends so you can hold more coats.

Size: 1280-1940mm(W) x 560mm(D) x 1335-2060mm(H) - adjustable ends and height.

- Holds up to 60 coats
- You never have to fold your coats again!
- Easily store your coats
- Count & sort
- Wheel them around easily
- Hang them up to dry

**NEW DESIGN!  
SAME LOW  
PRICE**

**L500  
\$255  
each**





HAINES

Visit our website [www.haines.com.au](http://www.haines.com.au)

### ELGACAN STAT DEIONISER, WITH 4 CARTRIDGES

Elgacan Stat deioniser, with 4 cartridges can produce up to 30L/hr of high purity water for a wide range of laboratory applications. The deioniser is a cost-effective stand-alone system that provides low to medium volumes of primary or deionised grade water. Water quality is easy to monitor, with a colour coded resistivity indicator displaying treated water quality.

Supplied with 4 cartridges.



B114  
**\$2,750**  
each

### ELECTRIC HEATING MANTLE

Flameless heat, large contact area to glassware, even Heat distribution, rapid heating of contents, for continuous use, powder coated for chemical resistance.

832279  
**\$265**  
for 500ml flask

832280  
**\$265**  
for 1000ml flask

832277  
**\$265**  
for 100ml flask

832278  
**\$265**  
for 250ml flask



L673  
**\$695**  
each

### VACUUM PUMP WITH PRESSURE GAUGE

The pump delivers 120mbar Ultimate Vacuum and 18 l/ min flow rate. This pump is ideal for schools with no maintenance and no oil, simply plug and play.

TOP QUALITY

4091  
**\$675**  
each



### SENIOR TROLLEY

- 1 x Senior Trolley
- 1032 x 508 x 960mm

3424  
**\$535**  
each



### JUNIOR TROLLEY

- 1 x Junior Trolley
- 854 x 473 x 960mm



### GLASS WASTE BIN WITH LID AND LINER

Disposable. 47 litres. Ideal for school science labs for the safe waste collection of broken glass. This box is printed with broken glass warnings and hazard symbols to help reduce potential workplace injuries from broken glass being put in general waste. Delivered flat, is easily assembled with plastic liner and flip top lid that can be removed when full to seal down box for safe transport to recycling.

77 (H) x 32 (W) x 31 (D)cm

L421  
**\$22<sup>90</sup>**  
each

L4211  
**\$110**  
pk/5



BM300  
**\$11<sup>80</sup>**  
300mm

BM400  
**\$19<sup>80</sup>**  
400mm

BEST SELLER

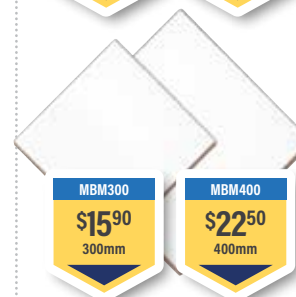
### BENCH MATS CEMENT SHEET

- Asbestos-free
- Washable

DIMENSIONS

Small : 300 x 300 x 5mm (W x H x D)

Big : 400 x 400 x 5mm (W x H x D)



MBM300  
**\$15<sup>90</sup>**  
300mm

MBM400  
**\$22<sup>50</sup>**  
400mm

### BENCH MATS MELAMINE-COATED

- Washable
- Easy Cleaning
- Unbreakable
- Non Scratch
- Non Absorbent

DIMENSIONS

Small : 300 x 300 x 15mm (W x H x D)

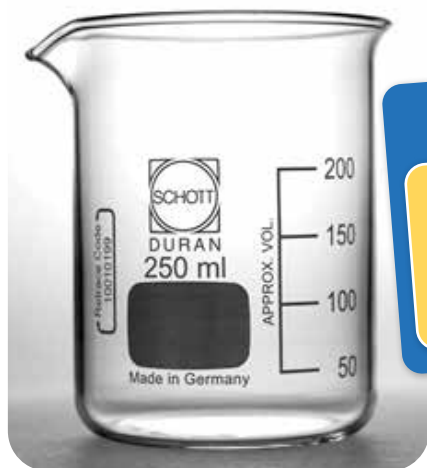
Big : 400 x 400 x 15mm (W x H x D)





- The complete range is now available from Haines Educational
- The following items will be in stock at exceptional prices

### CHECK OUT THE NEW YOUTILITY BOTTLE RANGE



**SAVE!!**  
**BUY IN PACK LOTS & SAVE!**



### SCHOTT DURAN® Beaker Low form with graduation and spout

ITEM CODE	CAPACITY	UNITS	PRICE
D101	25ml	Each	\$8.60
D1011		10 / pkt	\$80.90
D102	50ml	Each	\$8.40
D1021		10 / pkt	\$79.10
D103	100ml	Each	\$8.10
D1031		10 / pkt	\$75.80
D104	150ml	Each	\$8.70
D1041		10 / pkt	\$83.40
D105	250ml	Each	\$9.10
D1051		10 / pkt	\$85.60
D106	400ml	Each	\$10.70
D1061		10 / pkt	\$100.30
D107	600ml	Each	\$11.90
D1071		10 / pkt	\$112.10
D108	800ml	Each	\$15.30
D1081		10 / pkt	\$145.30
D109	1000ml	Each	\$18.40
D1091		10 / pkt	\$173.60
D110	2000ml	Each	\$33.70
D1101		10 / pkt	\$318.90
D111	3000ml	Each	\$61.90
D1111		4 / pkt	\$235.30
D112	5000ml	Each	\$108.10



### SCHOTT DURAN® Erlenmeyer flask Narrow neck, with graduation



ITEM CODE	CAPACITY	UNITS	PRICE
D201	50ml	Each	\$11.00
D2011		10 / pkt	\$89.80
D202	100ml	Each	\$10.60
D2021		10 / pkt	\$85.60
D203	250ml	Each	\$11.00
D2031		10 / pkt	\$89.80
D204	500ml	Each	\$13.50
D2041		10 / pkt	\$109.60
D205	1000ml	Each	\$24.50
D2051		10 / pkt	\$190.20
D206	2000ml	Each	\$37.80



### SCHOTT DURAN® Erlenmeyer flask Wide neck, with graduation



ITEM CODE	CAPACITY	UNITS	PRICE
D301	50ml	Each	\$11.20
D3011		10 / pkt	\$90.80
D302	100ml	Each	\$11.00
D3021		10 / pkt	\$89.80
D303	250ml	Each	\$11.80
D3031		10 / pkt	\$96.00
D304	500ml	Each	\$14.10
D3041		10 / pkt	\$114.80
D305	1000ml	Each	\$23.10
D3051		10 / pkt	\$189.00
D306	2000ml	Each	\$40.30
D3061		10 / pkt	\$329.00



HAINES

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Specially shaped gripping zones on both sides of the bottle enable easier and safer handling. The slimmer YOUTILITY bottle shape allows a more optimal use of limited space on benches, shelves and autoclaves. With the new YOUTILITY bottle thread opening or closing the bottle is significantly faster. The thread is fully compatible with DIN GL 45 closures and other accessories.



**SCHOTT DURAN® YOUTILITY bottle, clear, graduated with cyan screw-cap and pouring ring (PP)**

ITEM CODE	CAPACITY	UNITS	PRICE
D601	125ml	Each	\$16.10
D6011		4 / pkt	\$60.40
D602	250ml	Each	\$15.30
D6021		4 / pkt	\$58.10
D603	500ml	Each	\$17.50
D6031		4 / pkt	\$66.30
D604	1000ml	Each	\$25.00
D6041		4 / pkt	\$95.20



**SCHOTT DURAN® Laboratory Bottle, clear, graduated with screw-cap and pouring ring (PP)**

ITEM CODE	CAPACITY	UNITS	PRICE
D401	50ml	Each	\$14.20
D4011		10 / pkt	\$134.20
D402	100ml	Each	\$12.80
D4021		10 / pkt	\$121.60
D403	250ml	Each	\$14.90
D4031		10 / pkt	\$141.40
D404	500ml	Each	\$16.40
D4041		10 / pkt	\$157.90
D405	1000ml	Each	\$25.70
D4051		10 / pkt	\$244.20
D406	2000ml	Each	\$50.40
D4061		10 / pkt	\$477.30
D407	5000ml	Each	\$287.70



**SCHOTT DURAN® Laboratory Glass Bottle, Amber with screw cap and pouring ring (PP)**

ITEM CODE	CAPACITY	UNITS	PRICE
D501	100ml	Each	\$71.00
D5011		10 / pkt	\$614.10
D502	250ml	Each	\$81.20
D5021		10 / pkt	\$697.60
D503	500ml	Each	\$87.60
D5031		10 / pkt	\$683.80
D504	1000ml	Each	\$114.30
D5041		10 / pkt	\$916.10
D505	2000ml	Each	\$163.80
D5051		10 / pkt	\$1282.60

**SCHOTT DURAN® Spares**

ITEM CODE	CAPACITY	UNITS	PRICE
LB525	Cap, lab bottle, blue, GL 45	Each	\$5.80
LB520	Pouring ring, blue, GL 45, pkt 10	10 / pkt	\$18.10





# ADAM BALANCES



HAINES

## CB COMPACT RANGE

BEST SELLER

The CB is a compact portable balance which is ideally suited for a variety of uses and applications. Its compact size facilitates effortless storage and transportation between classrooms.



CODE	ACCURACY	UNIT	PRICE \$
CB501	500g x 0.1g	each	124.00
CB1001	1000g x 0.1g	each	148.00
CB3000	3000g x 1g	each	124.00
CBADAPTOR	6vDC 200mA	each	45.00

Pan size:  
130mm  
Dimension:  
45 x 160 x 205mm (H x W x D)



## DUNE SERIES RANGE

The Dune series offers all of the necessary features for quick and easy weighing. Compact and easy to use, the Dune offers basic weighing at an unbeatable value! Streamlined design for basic weighing in the lab, classroom or field.

CODE	ACCURACY	UNIT	PRICE \$
DCT201	200g x 0.1g	each	133.00
DCT2000	2000g x 1g	each	133.00
DCT5000	5000g x 2g	each	133.00
DCT302	300g x 0.01g	each	327.00
DCT601	600g x 0.1g	each	194.00
DCT2001	2000g x 0.1g	each	247.00

Pan size:  
145 x 145mm  
Dimension:  
40 x 208 x 147mm (H x W x D)



## CQT CORE SERIES RANGE

The CQT Core series is the best choice for simple operation and economy.

CODE	ACCURACY	UNIT	PRICE \$
CQT202	200g x 0.01g	each	400.00
CQT251	250g x 0.1g	each	223.00
CQT601	600g x 0.1g	each	259.00
CQT1501	1500g x 0.1g	each	371.00
CQT2601	2600g x 0.1g	each	425.00
CQT5000	5000g x 1g	each	247.00

Pan size:  
120mm  
Draft shield:  
Round 130 x 90mm high  
Dimension:  
86 x 173 x 255mm (H x W x D)

## HIGHLAND RANGE

With built in applications for parts counting, percentage weighing and totalization/ accumulation, Highland balances are packed with useful features.

CODE	DESCRIPTION	UNIT	PRICE \$
HCB120	120g x 0.001g	each	642.00
HCB302	300g x 0.01g	each	575.00
HCB602H	600g x 0.01g	each	618.00
HCB1002	1000g x 0.01g	each	680.00
HCB2202	2200 x 0.01g	each	841.00
HCB3001	3000g x 0.1g	each	575.00
HCB6001	6000g x 0.1g	each	642.00

Pan size:  
120mm  
Draft shield:  
Round 132 x 90mm high  
Dimension:  
80 x 170 x 245mm (H x W x D)



## LUNA RANGE PRECISION RANGE

Pan size:120mm  
Draft shield: Round 180mm x 110mm  
Dimension: 344 x 220 x 340mm (H x W x D)  
3 Year Warranty

### EXTERNAL CALIBRATION

CODE	DESCRIPTION	UNIT	PRICE \$
LPB 223e	220g x 0.001g	each	1,416.00
LPB 423e	420g x 0.001g	each	1,536.00
LPB 623e	620g x 0.001g	each	2,008.00

### INTERNAL CALIBRATION

CODE	DESCRIPTION	UNIT	PRICE \$
LPB 223i	220g x 0.001g	each	1,652.00
LPB 423i	420g x 0.001g	each	1,772.00
LPB 623i	620g x 0.001g	each	2,244.00



## ADAM CALIBRATION WEIGHTS

Balances require regular calibration to ensure accuracy. Inexpensive, they are the perfect partner for any balance in your lab. Stainless steel, OIML Class F1 weights.

CODE	DESCRIPTION	UNIT	PRICE \$
F1CN01	1g	each	64.00
F1CN10	10g	each	70.00
F1CN20	20g	each	77.00
F1CN50	50g	each	89.00
F1CN100	100g	each	102.00
F1CN200	200g	each	121.00
F1CN500	500g	each	172.00
F1CN1K	1000g	each	260.00
F1CN2K	2000g	each	320.00



## DISPOSABLE POLYSTYRENE WEIGH TRAYS



CODE	DESCRIPTION	UNIT	PRICE \$
WT21004	80 X 80mm	pk/1000	148.00
WT2250	80 X 80mm	pk/250	43.00
WT44	44 X 44mm	pk/250	22.50



HAINES

# PHYSICS

## TUBULAR SPRING BALANCE, PREMIUM

ACRYLIC, STAINLESS STEEL PARTS

Longer scale enables easier reading and improved resolution.

### DIMENSIONS

270 x 25mm (L x Ø)

CODE	DESCRIPTION	UNIT	PRICE \$
P300	10g / 0.1N	each	17.50
P310	20g / 0.2N	each	17.50
P320	100g / 1N	each	17.50
P330	200g / 2N	each	17.50
P340	250g / 2.5N	each	17.50
P350	500g / 5N	each	17.50
P360	1kg / 10N	each	17.50
P370	2kg / 20N	each	17.50
P380	5kg / 50N	each	17.50
P385	10kg / 100N	each	17.50
P395	Complete set	set/10	160.00

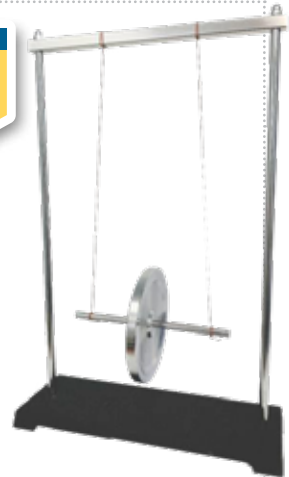


- LONGER LASTING
- WIDE RANGE OF CAPACITIES



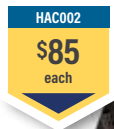
## MAXWELL'S WHEEL

Investigate conservation of mechanical energy and momentum with this intriguing device. The wheel is rolled to the top by means of strings wound on its axle. When released, its potential energy becomes kinetic, allowing it to roll back down. At the bottom, kinetic energy is converted into potential and the wheel rolls upward again. In an ideal world this would continue forever, but friction eventually sets in and the wheel will stop.



## HEAT ABSORPTION COMPARATOR

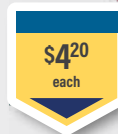
A great little device cleverly designed to demonstrate heat absorption and radiation. Use 12 V to activate the globe (supplied) and tabulate and graph the results.



## BANANA/BANANA LEADS, STACKABLE, 30CM

30cm with 4mm end, piggyback banana plug each end

CODE	DESCRIPTION	UNIT	PRICE \$
P053B	Black	each	4.20
0695002	Blue	each	4.20
0695003	Green	each	4.20
P053R	Red	each	4.20
0695005	Yellow	each	4.20



## HALF LIFE ANALOGUE

Perfectly safe way to study the topic of radioactivity. Practicals are difficult to organise because of the hazardous nature of the topic, but this apparatus offers students the opportunity to obtain realistic results. The student set contains ten trays and 500 small plastic cubes. The cubes have one face identified and represent radioactive nuclei

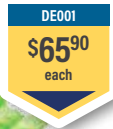
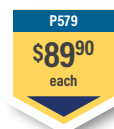
which have "decayed" when this face is uppermost.

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.



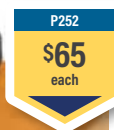
## BELL JAR WITH BUZZER, BATTERY OPERATED

When the buzzer is placed beneath the jar and a vacuum seal is created in the chamber, students will observe a total absence of sound. Once air is returned to the chamber, the sound of the buzzer can be heard once more. Activity requires a vacuum pump, not included. Height 14cm, 10 cm Ø



## BICYCLE DYNAMO ASSEMBLY

For showing slow AC on an oscilloscope or meter or for demonstrating the use of a dynamo in lighting a lamp. This apparatus has a cycle dynamo mounted on a base. Two 4 mm socket terminals are provided for the dynamo output.



## DOPPLER EFFECT APPARATUS

The wavelength of sound is changed by the motion of the source. This apparatus helps students understand with effect easily. Twirl the unit above your head for students to clearly hear the Doppler effect. A great aid for explaining this significant scientific principle.





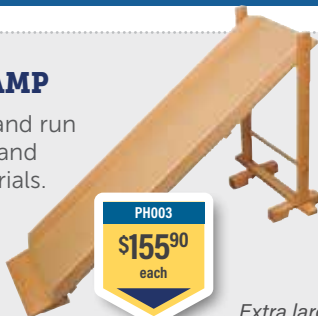
**DYNAMIC TRACK, STAND AND RAMP**

Complete with height adjustable support and run off ramp to bridge the gap between track and floor when required. Made of robust materials.

Specifications:

Ramp size: 30cm (W) x 120cm (L)

Maximum height: 65cm



PH003  
**\$155<sup>90</sup>**  
each

Extra large

P132  
**\$395**  
per set



**DEMOUNTABLE TRANSFORMER SET**

Easily conduct activities to illustrate electromagnetism and induction with this set of dissectible coils and cores. Kit consists of a plastic base, a laminated iron core, mounting fixtures and six coils protected in a heat resistant film. Also useful in basic transformer experiments. Coils: 200, 400, 600, 800, 1600, 3200, includes comprehensive instructions and activity guide.



4880  
**\$39**  
set/500g

4980  
**\$70**  
set/1000g

**SLOTTED MASSES,  
STAINLESS STEEL**

High quality stainless steel, does not tarnish, exceptional weight stability, extra strong hook and weights, spare hangers & slotted weights available.

9 Masses x 50g  
1 Hanger x 50g  
Total = 500g

9 Masses x 100g  
1 Hanger x 100g  
Total = 1000g

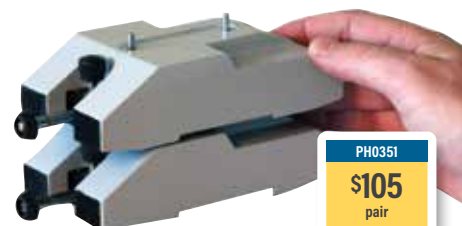
**DYNAMIC CART, METAL**

**PERFECT FOR INCLINED PLANE & BENCHTOP EXPERIMENTS**



Modern and compact, designed with robust metal bodies and wheels. Low friction wheel bearings with individual spring suspension. One end of the metal body carries an integral spring plunger/trigger system for explosion experiments, whilst the other end has a clamping screw for attaching ticker tape. Includes velcro pads for non elastic collisions and locating pins to permit secure stacking of trolleys.

Size: 150 x 78 x 50mm, 600g per cart.



PH0351  
**\$105**  
pair

STACKABLE

**LESLIE'S CUBE TIN**

Tin plate box with 130mm sides. The vertical faces of the box are blackened, roughened, varnished and polished respectively. The top opening is fitted with a stopper with a hole for a thermometer (not supplied)



P411  
**\$46**  
per set

**ICE MELTING PLATES**

A great demonstration for conductivity and heat transfer. The melting plates display quizzical properties when an ice cube melts on each plate. The aluminum plate that is cold to the touch melts the ice faster than the plastic foam plate, even though both have equivalent temperatures. Includes instruction manual, 1x each aluminum & foam plate (9 x 9 x 1cm)



P149  
**\$39<sup>80</sup>**  
per set



**RADIATION CANS, SET/3**

Not all colours are created equal. Investigate how colour can influence absorbing and radiating energy. The cans are finished with black, white, and silver exteriors, so students can easily determine the effect of surface colour on heat transfer. Set of three 500mL metal cans with stoppers to accommodate thermometer (not included). Size: 23cm tall.

P927  
**\$35<sup>80</sup>**  
per set



**FIRE SYRINGE DEMO**

Safely demonstrate the principle of the Diesel engine ignition, where heat is produced when a gas is rapidly compressed. When the plunger in the transparent cylinder is rapidly pushed down over a piece of cotton or paper towel, ignition occurs. Size: 22cm tall

P150  
**\$36**  
per set



HAINES

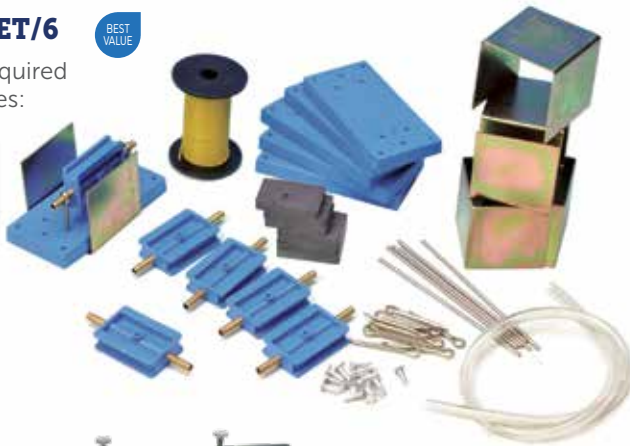
Visit our website [www.haines.com.au](http://www.haines.com.au)

### ELECTRIC MOTOR KIT, SET/6

The kit comprises all the part required to build 6 model motors. Includes:

- 12x magnets
- 6x armatures
- 6x mild steel yokes
- 6x support bases
- 6x shafts
- 24x rivets
- 12x split pins
- 1x reel of 26SWG PVC tinned copper
- 2x reels of cellotape
- 300mm rubber tubing of 3mm bore

P151  
**\$89<sup>50</sup>**  
set/6



BEST VALUE



PH724  
**\$75<sup>90</sup>**  
pair

### TUNING FORK PAIR

What happens when 2 mounted tuning forks sound at the same/ different frequencies? Steel, set of two.

### CATHODE RAY TUBES

Requires Induction Coil & Power Supply. Instructions included.



P840  
**\$99**  
each

Electrostatic Deflection



P841  
**\$99**  
each

Magnetic Effect



P842  
**\$99**  
each

Maltese Cross



P843  
**\$99**  
each

Paddle Wheel



EM013301  
**\$355<sup>80</sup>**  
each

### INDUCTION COIL, 30MM SPARK

To produce high voltage alternating current or pulses of high voltage direct current from a low voltage direct current source. Suitable for use with gas-filled discharge tubes, vacuum tubes and for general laboratory work. Requires 6-12V power source.

0090001  
**\$104<sup>80</sup>**  
each



### SOLENOID

AIR CORED, 660 TURNS

Formed on a strong moulded plastic bobbin, it is used in several experiments or for any time a magnetic field is required of known field strength.

It contains 660 turns of copper wire and can carry about 5 amps maximum current.

P351  
**\$580**  
each



### CLOUD CHAMBER, COLD PLATE TYPE

This Cloud Chamber requires no dry ice or liquid nitrogen. It uses a specially designed cold plate that is capable of retaining a low temperature for about one hour by freezing the plate in a standard freezer.

### LENZ LAW APPARATUS

This apparatus allows you to demonstrate electric and magnetic forces. 2 identical-looking plugs are dropped through the copper pipe, but react very differently. As you watch them drop through the viewing window you will see 1 drop quickly and without resistance while the other moves slowly through the tube.

P35  
**\$43<sup>90</sup>**  
each



### GEIGER COUNTER - DIGITAL

To detect and count high energy Alpha particles, Beta particles and Gamma rays, to count either continuously or over preset periods of 10sec, 60sec or 100sec. Comes with inbuilt GM tube and LCD display is powered by 3x 'AA' batteries. Socket provided for standard 240/12V.AC. Plug Pak can be used to run the unit.

1884001  
**\$875**  
each



### RADIOACTIVE SOURCES

Half lives displayed on individual disc sources. Isotopes are exempt from individual licensing and require no special handling/ storage or disposal.



CODE	DESCRIPTION	PRICE \$
1093001	Polonium 210	291.50
1093002	Strontium 90	291.50
1093003	Cobalt 60	291.50
1093004	Set/3 - Po, St, Cobox/100	825.00





PS351  
**\$75**  
per set



BEST SELLER

**ELECTRICITY KIT, ECONOMY**

A complete classroom set of basic electrical components.

Includes:

- 10x lamp holders, 10x bulbs
- 1x buzzer, 1x electric motor
- 5x switch, 3x battery holder
- 10x alligator leads

**ALPHA SCATTERING DEMO MODEL**

P742  
**\$99<sup>50</sup>**  
per set

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



**POWER LINES TRANSMISSION MODEL**

P0003  
**\$395<sup>90</sup>**  
each

Show safely and effectively why electricity is stepped up to 1,000s of volts when transported over large distances. Measure all currents and voltages in the power station, transmission lines and home. Compare the electricity loss (with step up) to the electricity loss (no step up). Includes teacher's notes and instructions.



**GUINEA & FEATHER**

**FREE FALL TUBE CLASSICAL DEMO**

Drop a coin and a feather in a vacuum and see how fast they fall. Length: 1m

Note: Requires a vacuum pump, not included

35050  
**\$155**  
each



BEST SELLER

PH019  
**\$79<sup>80</sup>**  
each



**DEMONSTRATION METER, ECONOMY**

Simple galvanometer. Use it to demonstrate deflection due to small currents.

Housed in a transparent wooden box to easily see key features.

Size: 8 x 10 x 19cm (L X W X H)

**LOOP THE LOOP**

Demonstrate transformation of potential into kinetic energy with this large size model for the whole class to see.

Size: 50cm high



PH054  
**\$69<sup>90</sup>**  
each

LARGE

**HAND GENERATOR**

Hand operated, housed in clear tough plastic case. Mounted lamp on the end can be used as a flash light.

Can be utilised with almost any experiment requiring up to 12V DC current. Use binding post to connect outside electrical circuit.



PH1229HG  
**\$39**  
each

**LIGHT GUIDE**

An "S" shaped acrylic bar used to demonstrate total internal reflection. Length: 22cm

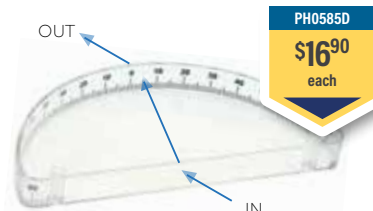


P0587  
**\$18<sup>50</sup>**  
each

**REFRACTION TANK**

Acrylic hollow tank with graduations. Ideal for refraction, reflection and wave demonstrations.

Size: 20cm diameter



PH0585D  
**\$16<sup>90</sup>**  
each



HAINES

# CHEMISTRY

## SPECTROMETER, ENGLISH PATTERN

Comprised of a cast base with an integral fixed pillar for the collimator support and a swinging telescopic arm.



338000

\$575 each

## NOMENCLATURE CARDS

Using this set of 140 + 4 blank write and wipe magnetic cards representing the most common cations and anions including polyatomic ions and multiple valency elements students can investigate not only the sometimes perplexing naming of compounds but the balancing of equations.



B202

\$129 set

## DIGITAL COLORIMETER

This Colorimeter is a high quality student Colorimeter for the measuring of concentrations of chemical solutions. The LCD display can provide either 'Transmission' or 'Absorption' measurements. Supplied complete with 6x cuvettes and 4x test tubes for samples, with selectable 0-4V or 0-5V analogue output signal for logging software.

1003001

\$486 each



## PH METER, POCKET SIZE

Ranges 0-14pH.  
0.1 pH resolution.  
Waterproof.



MW101

\$79 each

## PH METER, DIGITAL, 0.01 WATERPROOF

Ranges 0-14pH.  
0.01 pH resolution.  
Waterproof.



MW104

\$119 each

## BUFFER/STORAGE SOLUTION

HANNA® buffer solutions are prepared according to precise formulas and are standardized with a pH meter calibrated according to the NIST standards.

CODE	DESCRIPTION	PRICE \$
HI7004L	pH 4.01 (500ml)	35.20
HI7007L	pH 7.01 (500ml)	35.00
HI7010L	pH 10.01 (500ml)	35.20
HI70300L	Storage Solution (460ml)	35.20



## HAND BOILER

Glass hand boiler demonstrates Charles' Law. Item contains ethyl alcohol and is flammable, to be used under strict adult supervision.

G451

\$16 each



## MOLECULAR CLASSROOM DEMO SET

SET/99, EXTRA LARGE

C200

\$185<sup>90</sup> set/99

ELEMENT	QTY	FACE	COLOUR
Hydrogen	40	1	White
Carbon	20	4	Black
	10	3	Black
	4	2	Black
Nitrogen	1	4	Blue
	3	3	Blue
	4	2	Blue
Oxygen	10	2	Red
	6	1	Red

ELEMENT	QTY	FACE	COLOUR
Chlorine	2	1	Green
Fluorine	2	1	Light Blue
Bromine	2	1	Brown

LINKS		
Double Bonds	16	65mm length
Turning Bonds	6	70mm length
Small Bonds	120	16mm length
Big Connector	48	65mm length

## SENIOR ORGANIC / INORGANIC SET

SET/230



C190

\$169<sup>50</sup> set/66

ELEMENT	QTY	COLOUR
Metal	42	Grey
Oxygen	72	Red
Sulphur	12	Yellow
Nitrogen	15	Blue
Carbon	45	Black
Phosphorus	18	Purple
Hydrogen	36	White

LINKS		
Medium	170	Grey
Long Flex.	100	Grey

## SENIOR ORGANIC SET

SET/66



C195

\$59<sup>50</sup> set/66

ELEMENT	QTY	COLOUR
Carbon	20	Black
Oxygen	6	Red
Hydrogen	22	White
Nitrogen	2	Blue
Sulphur	2	Yellow
Phosphorus	1	Purple
Halogen Cl	6	Green
Halogen F	6	Green
Metal	1	Grey

LINKS		
Medium	28	Grey
Long Flex.	12	Grey
Short	30	White



**BEST PRICE  
GUARANTEE**



**FIND A LOWER PRICED  
IDENTICAL PRODUCT AND  
WE WILL MATCH IT!\***

*\*Conditions Apply*



**HAINES**

## PERIODIC TABLE MAGNETIC CARDS

Features the first 20 elements of the Periodic Table to illustrate the core concepts of atomic theory as you sequentially build the table. Cards can be used to illustrate the following major concepts: Families and Periods, Atomic Number and Mass, Isotopes, and Electron Shells and Valency. Size: 10.8 x 14.8cm, includes Elements 1-20 plus Hydride (H-), 14 additional elements (4 H, 3 O, 2 Cl, 1F, 2 Na, 2 K), 3Mg Isotopes, and Au & Pb



50200  
**\$89**  
per set

## SPECTROSCOPES

### METAL- PRISMATIC

For superior results, focus, adjustable slit, sharp lines.

SPM001  
**\$99**  
each



### SPECTROSCOPE, GRADUATED SCALE

Plastic, direct vision student spectroscope, fitted with a high efficiency grating in the eyepiece.

P5980  
**\$42<sup>50</sup>**  
each



### CARDBOARD

With diffraction grating, strong cardboard tube

F3093  
**\$11<sup>60</sup>**  
each



## STUDENT MINI VOLTAMETER

Neat compact unit, easy to use student voltmeter, includes electrodes

V2000  
**\$69**  
each



FTB001  
**\$29<sup>80</sup>**  
set/10

## FLAME TEST BOTTLE, 50ML

QUANTAM CHEMISTRY

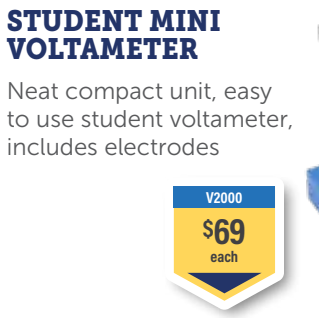
Show cation flame colours quickly. Spray low concentration of solution directly into flame. NO MESS! NO CONTAMINATION!



## FLAME TEST BOTTLE RACK

10 PLACES

FTB002  
**\$24<sup>40</sup>**  
each



PVT001  
**\$75<sup>80</sup>**  
each

## PVT SYRINGE

The PVT syringe can be used to quantify volume vs pressure and temperature vs pressure. Superior to the classical Boyle's Law syringe. Perfect for  $PV=nRT$  investigations.



Extra large  
& robust  
Colour-coded  
atoms

## JUPITER MOLECULAR MODELS



C130  
**\$39<sup>50</sup>**  
each

## SODIUM CHLORIDE MODEL KIT



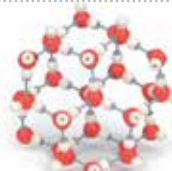
C135  
**\$39<sup>50</sup>**  
each

## GRAPHITE MODEL KIT



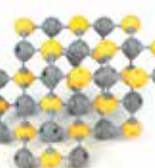
C140  
**\$39<sup>50</sup>**  
each

## DIAMOND MODEL KIT



C145  
**\$45<sup>50</sup>**  
each

## WATER MODEL KIT



C150  
**\$45<sup>50</sup>**  
each

## ZINC SULFIDE MODEL KIT



C160  
**\$48<sup>50</sup>**  
each

## FULLERENE MODEL KIT



S23A  
**\$1,690**  
each

## DIGITAL SPECTROPHOTOMETER

Determination of chlorophyll, yeast and bacterial growth with this apparatus. Perfect for environmental studies with many applications. Quality digital multipurpose unit. Includes: Teacher guide, manual, cuvettes.

CO0100  
**\$89**  
each

CO0101  
**\$110**  
each



With digital multimeter

## STUDENT COLORIMETER

For accurate determination of concentrations. Battery powered. Includes: Instructions and test tubes.



HAINES

Visit our website [www.haines.com.au](http://www.haines.com.au)

### SOLAR HYDROGEN EDUCATIONAL (FUEL CELL) KIT

Invent your own clean energy applications using fuel cells and the power of the sun. Generate hydrogen in a completely sustainable process by using a solar panel to power water electrolysis. Convert hydrogen into electrical energy with the PEM fuel cell and power your applications. As a starting-off point for would-be inventors, the kit comes with a small electric motor and propeller blade.

FCJ-16  
**\$220**  
each



### HYDROCAR FUEL CELL KIT

Great entry-level fuel cell car kit. Demonstrates electrolysis of water into oxygen and hydrogen. Includes solar panel to power electrolysis process, experiment guide on CD, as well complete manual. Easy to build and operate, steers independently when meeting obstacles.

KT2526  
**\$225**  
each



### SPECTRUM DISCHARGE TUBE

To show spectral lines of pure substances. Glass tubes with central capillary portion of about 9-10cm long with electrodes sealed at both ends and connected to lead wires protected by metal caps. Provided with loops welded to caps for electrical connection.

Except for Neon and Helium, these can not be used as lamps. For intermittent use.

- There are 2 ways to run the spectrum tubes:
  - - with a spectrum tube power supply (3785001); or
  - - with a spectrum tube holder (SAB), induction coil (EM013301) and power supply (2633001).

**DIMENSIONS**

Overall length: 260mm (L)

CODE	DESCRIPTION	UNIT	PRICE \$
HL132601	Argon	each	39.50
HL133601	Carbon Dioxide	each	39.50
HL134601	Helium	each	39.50
HL135601	Hydrogen	each	39.50
HL136601	Krypton	each	39.50
HL137601	Mercury Vapour	each	39.50
HL138601	Neon	each	39.50
HL139601	Nitrogen	each	39.50
HL140601	Oxygen	each	39.50
HL141601	Sulphur	each	44.50
HL142601	Water Vapour	each	39.50
1052007	Spectrum Tubes Set (H, Hg, He, N, Ne, Ar)	set/6	225.00

FROM  
**\$36**  
each



SPECTRUM DISCHARGE TUBE



3785001



SAB

### SPECTRUM TUBE EHV POWER SUPPLY

Extra high voltage power supply 220/240V AC 50/60Hz fitted with a removable mains cable. (Spectrum tubes not included).

SAFE • COMPACT • EASY TO USE

- Includes 1x stainless steel rod, 1x clamp to hold the lamp
- Base: 172 x 140 x 140mm (L x W x H)
- Rod: 320mm (L)

3785001  
**\$346**  
each

### SPECTRUM TUBE HOLDER, WITH TERMINALS

An apparatus to hold & clamp a spectrum tube. The height of the clamp can be adjusted to fit them length of the spectrum tube. Use with Rumkoff coil.

- External power source (EM013301) and (2633001). These items are not included.
- Base: 172 x 140 x 140mm (L x W x H)
- Rod: 1000mm (L)

SAB  
**\$89<sup>90</sup>**  
set



**BEST PRICE  
GUARANTEE**



**FIND A LOWER PRICED  
IDENTICAL PRODUCT AND  
WE WILL MATCH IT!\***

\*Conditions Apply



**HAINES**



IS004  
**\$26<sup>70</sup>**  
each

**MAGIC SNOW**

A super absorbent polymer that soaks water and 'grows' before your eyes. Feels like real snow! Non-toxic -best to avoid carpets and fabrics as it may stick and be difficult to remove. Can be used over and over again. Makes about 2.5litres of snow for every 100g of snow magic.



J930  
**\$17**  
per kit

**CRYSTAL GROWING KIT**

Crystals in nature can take thousands of years to grow, but you can create crystals in hours or just a few days with this crystal growing kit. Grow your own sparkling crystal in the container provided. Non toxic components.

**RED CABBAGE INDICATOR  
JIFFY JUICE**

Forget boiling smelly cabbages to extract pH indicator. Red Cabbage Jiffy Juice is bottled and ready to use. Just mix up the instant powder with water to make the Jiffy Juice indicator and measure the pH of common household substances.

J01512  
**\$29<sup>50</sup>**  
pack



**CONDUCTIVITY  
OF SOLUTIONS  
DEMONSTRATION**

This kit consists of a moulded socket on a PVC cover, provided with binding posts for the connection of two wire cords. Two electrodes are internally connected to the lamp circuit to show how the current powers a lightbulb. Watch as you control how liquid can conduct electricity!



7-315  
**\$19<sup>90</sup>**  
each



**MEMORY WIRE (NITINOL)**

**CHANGES STRUCTURE**  
With teacher notes & lesson ideas.

30cm  
CH832  
**\$15<sup>80</sup>**  
each

90cm  
CH932  
**\$40**  
each



**LEMON CLOCK  
DISCOVER THE SCIENCE  
OF BATTERIES**

Simply add your own lemon to turn into an amazing powered clock.

J938  
**\$11<sup>50</sup>**  
per kit



PH001  
**\$125**  
each

**KINETIC THEORY MODEL**

The model's vibrating base excites the mini steel balls. As the power is increased – the energy of the balls increases and raises the foam block "ceiling" (simulating gas expansion).

**JUMBO TEST TUBES + STAND**

Sturdy & durable, encourages inquiry-based investigation and hands-on observation.

Safe at temperatures from 10° - 80°C with 25/50/75/100ml calibration marks

Includes 6 test tubes, rack and Activity Guide.

Tubes measure 15 x 3.75cm (H x dia).



L991  
**\$39<sup>50</sup>**  
per set

**HOFFMAN VOLTAMETER, ACRYLIC  
NEW COMPACT PLASTIC,  
STAINLESS STEEL DESIGN**

New design with all the classic features of a glass Hoffman Voltameter. Safer and easier to store, minus the breakages. Includes instructions and a pair of platinum electrodes (spares available).

Made in Australia.  
Size: 140 x 520mm.

GE1760  
**\$248**  
each





HAINES

# BIOLOGY

B131  
**\$99**  
each



## MONOCOT SEED GERMINATION (MAIZE)

Model shows germination of monocot plant (maize) seeds of development. Size: 420 X 330 X 70mm (L x W x H)

B130  
**\$99**  
each



## DICOT SEED GERMINATION (PEA)

Model shows the germination of dicot plant (pea) seeds of development. Size: 330 x 230 x 50mm (L x W x H)

EXTRA LARGE

AM0072  
**\$425**  
each



## HUMAN HEART

4 parts, extra large. Model is cut by vertical line towards level of ventricular septum and separates into 2 parts after the arch of aorta and superior venacava have been removed. Mounted on base. Numbered with keycard.

## TECH TRAY

Polypropylene laboratory/ dissecting tray. Hygenic, stackage, light weight, autoclavable with etched scale and anchor points (for securing specimens with string). Each tray is supplied with one disposable dissecting mat. 47 x 33.5cm

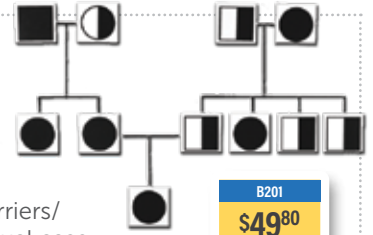
L1108  
**\$24**  
each

Note: Pictured labware not included



## GENETIC & INHERITANCE MAGNETIC CARDS

Investigate how genes work in families using these 36 magnetic shapes, representing males and females with the 3 possible genetic combinations (affected/carriers/unaffected). Includes teacher's guide with actual case studies, lesson outlines and reproducible work sheets.



B201  
**\$49<sup>80</sup>**  
per set

## MAGNETIC HUMAN BODY

Twice the life-science learning--skeletal system on one side and major organs and muscle groups on the other! Creates a realistically detailed body. Features multilingual Activity Guide with reproducible diagrams to label.

LER6044  
**\$75<sup>60</sup>**  
per set



## STAINLESS STEEL, POINTED FINE FORCEPS

CODE	DESCRIPTION	UNIT	PRICE \$
DFP1	125mm	each	4.70
DFP4	150mm	each	5.30
DFP6	200mm	each	5.90
DFP7	250mm	each	6.70

## STAINLESS STEEL, BLUNT

CODE	DESCRIPTION	UNIT	PRICE \$
DFP2	125mm	each	4.70
DFP5	150mm	each	5.30

## STAINLESS STEEL, CURVED

CODE	DESCRIPTION	UNIT	PRICE \$
DFP3	125mm	each	5.20



DSS2



DSS3



DSS4

## STAINLESS STEEL SCISSORS, FOR DISSECTING 130mm

CODE	DESCRIPTION	UNIT	PRICE \$
DSS2	Sharp/Sharp	each	5.90
DSS3	Sharp/Blunt	each	5.90
DSS4	Blunt/Blunt	each	5.90

## DISSECTING KIT, 4 INSTRUMENTS

Includes splinter forceps, scalpel handle, dissecting scissors and artery forceps. Note: the needle in image is replaced by Artery forceps.



821903  
**\$22**  
per kit

## DISSECTING KIT, 7 INSTRUMENTS

Includes 2 x scissors, scalpel handle # 4, scalpel blades, dissecting needle and 2 x forceps.



821910  
**\$25<sup>40</sup>**  
per kit



**BEST PRICE GUARANTEE**



**FIND A LOWER PRICED IDENTICAL PRODUCT AND WE WILL MATCH IT!\***

\*Conditions Apply



**HAINES**



**TEST STRIPS**

CODE	DESCRIPTION	UNIT	PRICE \$
IS129-50S	Urine Test strips (Glucose 0-3000mg/dL)	pk/50	53.80
IS130-50S	Urine Multi-Test strips (Glucose, Protein, pH & Ketones)	pk/50	110.00
IS151-40S	Glucose test strips (0-0.1-0.25-0.5-2%)	pk/40	75.00
813340	Control (taste test)	vial/100	10.50
813330	Sodium Benzoate (taste test)	vial/100	10.50
813335	Thiourea (taste test)	vial/100	10.50
813325	Ptc (taste test)	vial/100	12.30

**FINGER TIP PULSE OXIMETER**

Economical, easy to use, and compact finger-tip pulse oximeter.



**NEW PRODUCT**

CMS50C  
**\$159<sup>70</sup>**  
each

**DNA MOLECULE MODEL**

This 12-layer model (one complete turn of the double helix) is designed for self-assembly. The model may be assembled on the stand for display, or laid flat for a demonstration of unzipping and replication. It is also possible to combine this DNA model with an RNA model to explain transcription and protein synthesis.

Size: 24cm (H)

- Includes colour-coded bases (G,C,A and T), deoxyribose and phosphate groups, as well as a display stand
- On sturdy base



S060  
**\$99<sup>30</sup>**  
per set



**DELUXE ANIMAL CELL**

Enlarged 20,000X shows a detailed depiction of the animal cell and its structure. Includes the following organelles: nucleus, endoplasmic reticulum, mitochondria, ribosomes, polysomes, and Golgi apparatus. Mounted on base with keycard. Dimensions: 380 x 240 x 480cm

ZM2  
**\$215<sup>80</sup>**  
each

**GIANT MAGNETIC ANIMAL CELL**

**24 PARTS**

Teach the internal structure of an animal cell, individual organelles and structures individually with this giant cell structures printed on raised foam magnets. Ideal for demonstration or student manipulation.

Includes 4-piece animal cell, 14 dimensional organelles and Activity Guide

Dimensions (largest piece): 115 x 60 x 160mm (L x W x H)



L6035  
**\$65<sup>80</sup>**  
per set

**PREHISTORIC HOMINID SKULL**

Matural size, Set/6

Review anatomical similarities.

Set consists of:

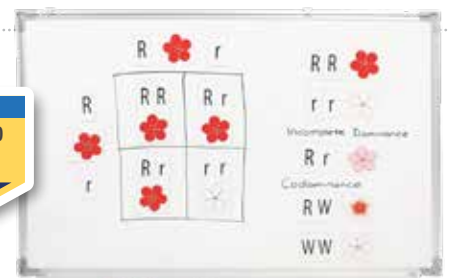
- Australopithecus afarensis
- Australopithecus africanus
- Homo erectus
- Homo sapien
- Homo habilis
- Homo neanderthalensis



B127  
**\$595<sup>80</sup>**  
set/6

**STICK TO SCIENCE PUNNETT SQUARE**

The Punnett square is a square diagram that is used to predict the genotypes of a particular cross or breeding experiment.



S180  
**\$75<sup>80</sup>**  
each



HAINES

Visit our website [www.haines.com.au](http://www.haines.com.au)

### BUDGET ANATOMICAL MODELS

Made Of Fibre Reinforced Polyester Realistically Painted With Laminated Key Cards  
Ideal For Health & Safety Science / Open Days



#### EYE

12 x 12 x 23cm, 6 parts, 5x Sectioned horizontally and separates into upper half of the sclerotic membrane - 2, Retina with vitreous humour, lens, lower half of the sclerotic membrane. On base. Numbered with. English Key Card.

6512

\$89 each



#### EAR

25 X 18 x 15cm, 3 parts, 2x. Shows external, middle and internal portion. Ossicles and labyrinth can be taken out. On base. Numbered with English Key Card.

6516

\$89 each

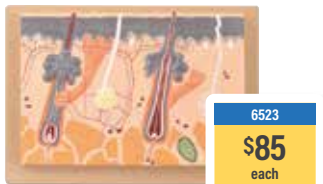


#### BRAIN

19 x 15 x 15cm, 8 parts, Human natural size. Separated into 8 parts and placed on diaphragm. Showing the temporal and occipital lobes, brain stem, cerebellum and the basilar artery. Model shows blood vessels all over on brain.

6511

\$165<sup>80</sup> each



#### SKIN

33 x 23 x 6cm, 70x, Raised Relief. Shows section through three layers of the hair covered skin of the head. Also shows hair follicles with sebaceous, sweat glands, receptors, nerves and vessels. On base. Numbered with English Key Card.

6523

\$85 each



#### HEART

14 x 13 x 28cm, 4 parts, 2x. Model shows the auricles, ventricles, cardiac valves, large vessels and cardiac muscles, the upper section of the aoesophagus, the upper bronchi and the ascending aorta. Mounted on base. Numbered with English Key Card.

6527

\$95 each



#### PUMPING HEART

4-chamber working model. A 3D working plastic heart model with clear chambers on a display stand. Squeeze bulb pump simulated blood through clear heart chambers just like real one. Size: 140 x 140 x 175mm. Includes instruction manual

MK019

\$42 each

### RAT DISSECTION

This model is used for anatomical study, depicts a full frontal dissection for viewing major internal organs. Mounted on base. Numbered with keycard.

Size: 610 x 300 x 50mm (H x W x D)



ZM0032

\$189<sup>90</sup> per set

### SOFT FOAM CROSS-SECTION MODELS

MAKE BIOLOGY FUN WITH "HANDS-ON" SQUASHY "CROSS SECTION MODELS"  
COMPLETE WITH ACTIVITY GUIDES  
EACH MEASURE APPROX 13CM DIAMETER

#### ANIMAL CELL

Teaching the parts of an animal cell to your class is easy. The soft foam cell splits in half to show the key parts of an animal cell, including the nucleus, nucleolus, vacuole, centriole, cell membrane and more.



LER1900

\$42 each

#### PLANT CELL

This model of a plant cell splits in half to provide a cross-section view and make teaching the parts of a plant cell easy.



LER1901

\$42 each

### GLITTER BUG HAND WASHING KIT

GlitterBug Potion is applied to students' hands and rubbed in all over, including the wrist. It dries invisible. When they wash their hands, the GlitterBug Potion will be removed with good handwashing technique. However, the Potion will still be present on any areas that are missed by the washing, and this will show up under GlitterBug UV light.



GBHWK

\$120 per kit



**BEST PRICE  
GUARANTEE**



**FIND A LOWER PRICED  
IDENTICAL PRODUCT AND  
WE WILL MATCH IT!\***

*\*Conditions Apply*



**HAINES**



**VCE (L) MICROSCOPE**

- Triple nosepiece
- Built-in light (LED)
- Achromatic, parfocal & parcentered objectives
- 3 Objectives: 4x, 10x & 40x
- Iris diagram
- Condenser
- Full size coarse and fine focus

VCE(L)  
**\$375**  
each

**ORDER  
CLASS SET  
AND SAVE  
\$\$\$**



**STEREO DELUXE (L)  
MICROSCOPE**

- Incident & transmitted light
- Widefield 10x eyepiece
- 2 objectives: 2x, 4x
- 20x, 40x magnification
- Parfocal & parcentered objectives
- Rubber eyecups

DELUXE(L)  
**\$425**  
each



PS16  
**\$25**  
each

**PREPARED MICROSCOPE  
SLIDES  
MITOSIS PHASES, SET OF 5**

Metosis set of five, onion root tip. Packed in a 5's plastic box. Anaphase, metaphase, prophase, telophase and interphase.

**ONION ANTHOR  
MEIOSIS, SET OF 12**

Mixed set showing the different stages of meiosis in an onion cell: Leptotene, zygotene, pachytene, prophase, diakinesis, metaphase, anaphase, telophase, prophase, metaphase, anaphase, telophase.

PS12  
**\$75**  
each

**BACTERIA, SET OF 6**

Three types of bacteria smear, bacterie bacillus, clostridium tetani smear, lactobacillus acidophilus smear, bacteria from human mouth smear, bacteria spores smear.

B1123  
**\$39**  
each

**MINI GRID**

Minigrad slide, 1cm square divided into 1mm divisions.



MG002  
**\$21**  
each



B1146  
**\$99<sup>80</sup>**  
each

**BOTANY,  
SET OF 25**

Volvox W.M, Nostoc W.M, 3 Spirogyra W.M, 4 Chlamydomonas W.M., Euglena W.M., Yeast W.M, Mucor W.M, Penicillium W.M, Monocot leaf C.S, Monocot Stem C.S, Monocot Root C.S, Dicot Root C.S, Dicot Stem C.S, Dicot Leaf C.S, Spirogyra vegetative, Bacteria bacillus, Bacteria Coccus, Onion stoma, Pollen germination W.M, Mitosis onion root, Parenchyma, Pholem, Xylem, Scalerchyma.

**ZOOLOGY,  
SET OF 50**

Mammal taste bud, mammal blood, meiosis locust, mammal artery, mammal vein, animal cell, euglena, mammal lungs, mammal appendix, mammary gland, mammal thymus gland, mammal adrenal gland, mammal pituitary gland, paramecium w.m, paramecium fission,w.m, paramecium Conjugation,w.m, mammal nerve, hydra w.m, hydra with Bud, w.m, skeletal muscle, mammal blastula, mammal hair, mammal ovary, fibro cartilage, simple cuboidal epithelium, stratified squamous epithelium, ciliated epithelium, adipose tissue, hyaline cartilage, mammal tooth, elastic cartilage, frog blood smear, smooth muscles, skeleton muscle, daphnia, sardiatic muscle, spinal cord, esophagus, trachea, stomach, planarian, mammal skin, small intestine, duodenum, jejunum, large intestine, nerve cell, kidney, ureter, mammal rectum.

B1148  
**\$199**  
each

**SEE-THROUGH  
COMPOST  
CONTAINER**

A clear composting container with three compartments for observation and experiments! This composting box lets you compare how quickly three different materials decompose in soil.



5095  
**\$99<sup>80</sup>**  
each



ZL001  
**\$99**  
each

**MICROSCOPE,  
DIGITAL, 1.3MP**

Plug this portable USB microscope into your computer and watch everyday objects come alive in amazing detail on the screen, magnified 200 times their normal size.

**BEST  
VALUE**

**PLANT PRESS**

Large and sturdy plant press. Size: 250 x 250mm

FP001  
**\$39<sup>50</sup>**  
each



**HUGE HANDS FREE  
MAGNIFIER**

- 2x magnification
- Foldable for safe and easy storage. Bottom frame is ruled to 10cm for measuring objects to be viewed
- Excellent optics. Perfect for plastomounts, life specimens, semi permanent displays.



QM3505  
**\$18<sup>60</sup>**  
each



HAINES

Visit our website [www.haines.com.au](http://www.haines.com.au)

### VARIABLE VOLUME MICROPIPETTES

Our series of micropipettes features color coded plungers for easy identification. Calibration conforms to DIN 12650 & EN-ISO 8655 standard ensuring high accuracy and precision. Calibration report enclosed with every micropipette.

CODE	DESCRIPTION	UNIT	PRICE
HAIM5	Micropipette	200-1000uL	180.00
HAIM4	Micropipette	50-200uL	180.00
HAIM6	Micropipette	10-100uL	180.00



### BOXED RACKED TIPS

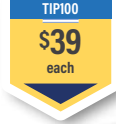
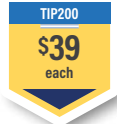
Autoclavable micropipette tips. Free of lubricants, dyes and heavy metals. Non-sterile. 2 - 200 µl capacity. Supplied in rack of 96, Suitable for HAIM4 & HAIM6 micropipette.

CODE	DESCRIPTION	UNIT	PRICE
TIP58B	Racked Micropipette Tips, 2-200uL - 96 Tips		25.00
Suitable for HAIM4 & HAIM6 micropipette			
TIP55B	Racked Micropipette Tips, 200-1000uL - 96 Tips		25.00
Suitable for HAIM5 micropipette			



### LOOSE TIPS

CODE	DESCRIPTION	UNIT	PRICE
TIP100	Tips for micropipette	2-200uL - 1000pkt	39.00
Suitable for HAIM4 & HAIM6 micropipette			
TIP200	Tips for micropipette	200-1000uL - 500pkt	39.00
Suitable for HAIM5 micropipette			



### EMPTY UNIVERSAL MICRO TIP BOXES

Made from high quality polypropylene, holds 96 tips. Transparent cover. Suitable for autoclave.

CODE	DESCRIPTION	UNIT	PRICE
B2506	Universal empty micro tip box	2-200uL	8.00
B2508	Universal empty micro tip box	200-1000uL	10.00



### MARINE ANIMAL KINGDOM

This kit looks at species found in Marine Animal Kingdom. There are eight specimen blocks in this package, each preserved and encased in clear resin material. Specimens include: Pagurid, Spiral Shell, Lobster, Starfish, Cuttlefish, Fiddler Crab, Octopus, Scat Fish.



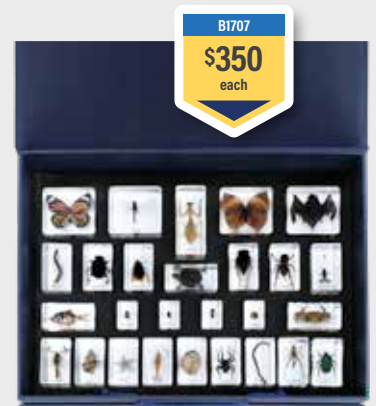
### PARTS OF AN INSECT SPECIMEN

This kit focuses on the parts of an Insect. The block is made from clear resin so each part can be observed from every side to see the details! The specimen contained in the block is a Stag Beetle (Lucanus hermani).



### ANIMAL KINGDOM SET

27 Species, with case  
Mimesis Whitered Leaf Butterfly; Bat; Mantis; Dragonfly; Butterfly; Centipede; Cockroach; Cicada; Tortoise; Dung Beetle; Cricket; Tadpole & Frog; Fish; Housefly ; Ant; Ladybug; Honeybee; Crab; Conch; Starfish; Shrimp ; Shell; Spider; Earthworm; Grasshopper ; Chafer; Scorpion



### ARTHROPODS SPECIMENS COLLECTION

This collection includes six different arthropods and their characteristics. The species in this set include the Pillworm, Scorpion, Locust, Spider, Shrimp and Millepede.





## RUBBER BAND RACERS, GIGO

Build 5 different models: boat; propeller car; hydrofoil; airplane; helicopter. The propellers get the students to play and learn about energy stored in rubber bands as well as the principles of aviation.



7403  
**\$23**  
each

## GIGO SOLAR CATAMARAN

This catamaran sails on solar or battery power.

Includes:

- 44 pieces, 6 experiments included
- The multi-functional motor combines a solar panel, gears and a battery
- A fan can be used along with the solar motor



7398  
WAS \$23  
NOW **\$16**  
each

## SOLAR POWER KIT 2.0, GIGO

The special solar panel in this kit generates 3 volts of electricity in bright sunlight and its position can be adjusted. Comes with 120 pieces to build 10 models. The special solar panel in this kit can generate 3 volts of electricity in bright sunlight and it's positionable, so you can experiment by adjusting it to different angles thereby maximizing its exposure to the sun to generate more power.



7303  
**\$49**  
each

## MIRACLE MIRROR

This is a plastic hemisphere covered with aluminum. 14cm in diameter. The back side functions as a concave mirror and the front as a convex mirror. Reflections of the same object on opposite sides are dramatically different.



P980  
**\$100**  
each

## AIR ZOOKER

Blast a harmless vortex of air up to 6m towards any object or person. Powerful enough to blow out a candle from across the room!

Safe and easy to assemble and use. Requires no batteries.



AIR-200  
**\$45**  
each

BEST SELLER

## SIMPLE MACHINES, SET OF 6 MACHINES

This set of 6 wooden machines are elegantly designed and easy for students to use. A great resource to have in the classroom.



P783  
**\$299**  
kit



### ENGINEERING MARVELS

A set of three kits for all budding engineers! Build and experiment with these high quality construction kits. Ideal for all STEM applications.

**H7000**  
**\$299**  
set of 3



### DELUXE MIRROR/LENS SET ON STAND, SET/4

This set includes the following items, one of each: biconvex lens, convex mirror, biconcave lens and concave mirror. Each mirror/ lens measures 20 cm high and the diameter of the mirror/lens is 9 cm.

**G020**  
**\$49<sup>50</sup>**  
each

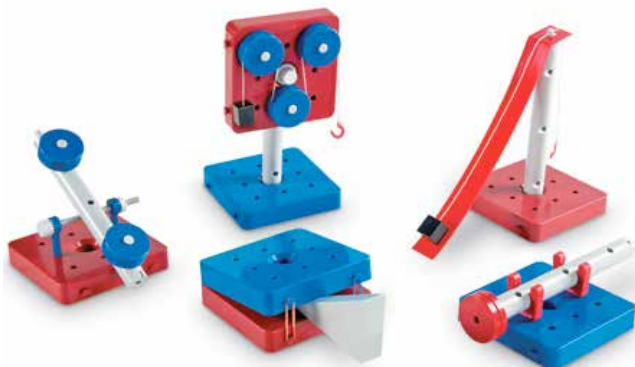


### FOUCAULT'S PENDULUM

Easy to use, compact instrument. Built simple device with an executive wooden stand, conceived as an experiment to demonstrate the rotation of the Earth – while also making intricate patterns in the sand.

Size: 55cm

**G985**  
**\$106**  
set



### SIMPLE MACHINES SET

**63 PIECES, BUILD ALL 5 MACHINES AT THE SAME TIME!**

Construct, examine and explain simple machines to develop a deeper understanding of how they make work easier. Contains enough pieces to build a lever, pulley, inclined plane, wheel and axle, and wedge—all at the same time. Modify machines with 4x weights (2x 5g and 2x 10g) and 8 included rubber bands to explore effort, force, load, motion and distance. Labeled pieces assemble easily and separate to store.

**P2442**  
**\$119<sup>50</sup>**  
set

### BALLOON HELICOPTER

Inflate one of the balloons, pinch off the neck, attach the balloon to the rotor blades and watch this simple helicopter soar into the air! No batteries or jet fuel required! Great demonstration of Newton's third law.

**FS029**  
**\$25**  
10/pkt



### BALANCING BIRD

This eagle balances on almost anything - your finger, a pencil, or the edge of your desk. Students can change the eagle's centre of gravity by adding small pieces of tape or paperclips to have it to balance perfectly. Individually packaged with a stand. Approx. 16 cm wing span.

**G195**  
**\$9<sup>90</sup>**  
each



### GLUE GUN

Trigger action glue gun dispenser. Uses 7/16" / 11mm diameter glue sticks.

**AA100**  
**\$34<sup>10</sup>**  
each



### HOT MELT GLUE STICKS, 30CM, PKT/10

30cm glue refills suitable for most surfaces. Bonds Quickly. Pack of 10.

**AA111**  
**\$12<sup>90</sup>**  
pkt/10



### DRINKING BIRD

Shows cooling process of evaporation.

**HL001601**  
**\$20**  
each





**METALS TEST KIT**

BEST SELLER

Test for magnetism, heat, conductivity, hardness etc.

- 12 pieces, each stamped for identification

PH0798A  
**\$19<sup>50</sup>**  
each



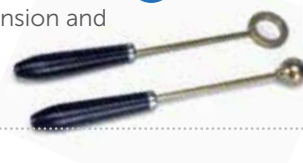
**BALL & RING APPARATUS**

BEST SELLER

Demonstrate the expansion and contraction of metal.

Brass - Gravesande's

Q200001  
**\$21<sup>90</sup>**  
each



**ELECTROSTATIC STICK**

Slide the rubber sleeve along the clear plastic stick and watch the foam balls fly. A vivid demonstration in electrostatics. 30cm long.

ES001  
**\$32<sup>80</sup>**  
each



**COMPASS, POCKET**

Pocket Compass, 45mm dia., a format compass in aluminum case, marked in degrees, with N and S indication. Suitable for use as a plotting compass or for normal application. Colour of string may be different.

MA0140  
**\$8<sup>60</sup>**  
each



**NEWTON'S CRADLE,  
LARGE**

Demonstrate the conservation of momentum and energy via a series of swinging spheres. Ask students to explain what's going on. Extra large size.

Dimensions 180(l) x 150(w) x 190(h) mm.

YRSC417  
**\$35**  
pack



**MAGNET VARIETY TEST PACK**

**13 MAGNETS**

A kit of magnets and accessories in a compartmental storage tray. Contents :

- 1x Horseshoe magnet, 6% chrome, 100mm, w/keeper
- 2x Ceramic bar magnets 75mm
- 3x Ceramic ring magnets, 38mm dia., face polarised
- 2x Plotting compasses, 19mm dia.
- 1x Pack Iron Filing.
- 1x square iron
- 1x aluminium
- 1x zinc
- 1x copper metal

PH0800  
**\$39**  
pack



**RADIOMETER**

Experience this sphere powered by the sun! The vanes in the Radiometer alternate in dark and light colors. When the light strikes these vanes it transfers heat to each one, but not at the same degree. The lighter vane reflects the rays and the darker vane absorbs the rays.

101800  
**\$38**  
each



**PLASMA BALL**

- Electrical current flows through negatively ionised gas to create the illusion of lightning
- Black back cover for increased lightning visibility
- Approx 20cm diameter
- Reacts to sound
- Lasts for up to 1000hrs

G221  
**\$65**  
each



**BINOCULARS**

Full size, plastic body.

- Eyepiece with Rubber Cushion
- Sensitive Focus Knob
- 35mm ø Objective Lens
- Safety Neck Strap

BN-63501  
**\$25<sup>20</sup>**  
each





HAINES

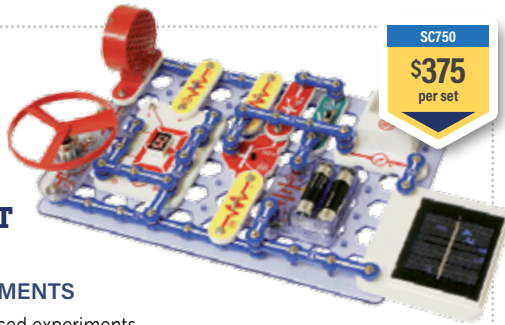
Visit our website [www.haines.com.au](http://www.haines.com.au)

Over 80 components

### SNAP CIRCUIT - EXTREME

OVER 750 EXPERIMENTS

- 70 computer interfaced experiments
- Study projects in solar power, electro-magnetism & vibration switches
- Uses 4 "AA" batteries
- Includes projects manual



SC750

\$375 per set

BEST SELLER

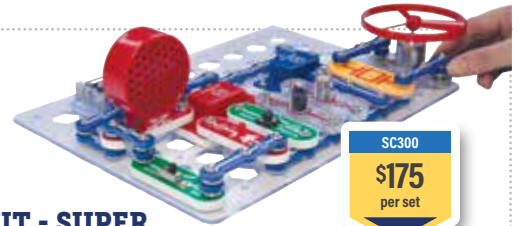
Over 60 components

### SNAP CIRCUIT - SUPER

OVER 300 EXPERIMENTS

The components and connector system are creatively designed to facilitate and optimize learning by engaging students in a meaningful way with exciting projects.

Includes electronic projects book and guide.



SC300

\$175 per set

### SNAP CIRCUITS 300 EDUCATIONAL VERSION

300 electronic projects kit. With student and teacher guides, and a storage case.

SC-300R  
\$299<sup>50</sup> per kit



### SNAP CIRCUITS 750 EDUCATIONAL VERSION

750 electronic projects kit. With student and teacher guides, and a storage case.

SC-750R  
\$495 per kit

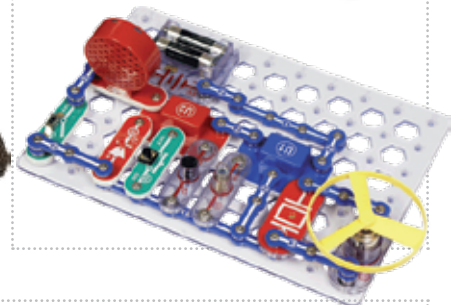


### SNAP CIRCUIT - JUNIOR OVER 100 EXPERIMENTS

- Uses 2 "AA" batteries
- Includes projects manual.
- Ideal for years 6-9

Over 30 components

P190  
\$89<sup>90</sup> per set



### SNAP CIRCUITS - GREEN ENERGY

Learn the basics of electronics and modern alternative energy. Explore clean energy concepts, such as electric cars, windmills, and hand-generated power. Includes full-color manual and separate "Think Green" manual that explains environmentally-friendly energy including geothermal, hydrogen fuel cells, wind, solar, tidal, hydro, and others. Perfect for environmentalists and future engineers!

Over 125 experiments & 45 parts

SCI25  
\$195<sup>80</sup> per set



### BUZZ WIRE KIT

Learn how to connect an electric circuit. Design different wire shapes with varying levels of difficulty. The aim is to move the metal wand along the wire maze, from one end to the other, without actually touching the wire.

Includes:

- Plastic platform
- Plastic accessories & metal plugs
- Electric buzzer
- Insulated electric wire
- Bendable metal wire
- Instructions
- AA size Battery holder (Batteries not included)

G232  
\$29<sup>50</sup> each



### LIQUIFLY WATER ROCKET, DELUXE

NEW IMPROVED DESIGN!

Use air and water to power the bottle rocket more than 100 feet into the atmosphere. Includes fins, two valves, 27cm rocket bottle, hose and pump.

G505  
\$44<sup>50</sup> each





## MINERALS SET, 20 PC

Samples of minerals all clearly labelled. In a neat wooden case (21x13cm). Asbestos free.

S120  
**\$59**  
per set



## ROCKS SET, 49 PIECE

Samples of igneous, metamorphic and sedimentary rocks. All clearly labelled. Rocks are stored in a neat wooden case (29x21cm). Asbestos free.

S110  
**\$119**  
per set



## MINERALS SET, 20 PC

Teach the measurement of natural phenomenon. Seismograph recorder with attached support and suspended weight registers visual shock waves from simulated earthquakes.

Size: 30 x 15 x 12.5cm



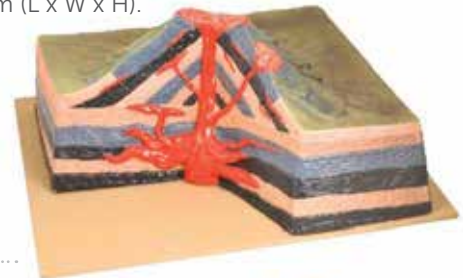
540  
**\$85**  
each

## VOLCANO MODEL

Section showing flow of magma. Made of unbreakable material, coloured. Showing vertical section for students to view the path that magma takes on its upward course. Mounted on base and numbered with English Key Card.

Size: 420 x 406 x 203mm (L x W x H).

B588  
**\$185**  
each



## FRACTURES, FAULTS & DISLOCATIONS MODEL

Excellent way to illustrate various structures related to fault planes and fractures. Shows cross section of five different structural features. The features are labeled and a numbered key is printed on the base.

Size: 47.5(L) x 30(D) x 22.5cm(H)



B582  
**\$195**  
each

## POLITICAL (GEOGRAPHICAL) GLOBE

Perfect desktop swivel globe for the classroom. 2-piece construction with a sturdy base.

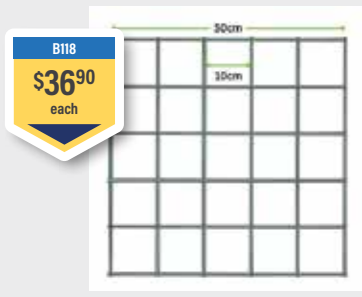
Size: 28cm diameter

GE007  
**\$39<sup>50</sup>**  
each



## QUADRAT GRID 50 X 50CM, 10CM GRID

Quadrat Grid-50x50 with 10cm squares. For taking population survey on flat terrain. Size: 50 x 50cm with 10cm grid size. Stainless steel PVC Coating.



B118  
**\$36<sup>90</sup>**  
each

## SIEVE, SET/3

Soil is made up of a range of particles from fine clay/silt to coarse sand and gravel. These particles can be separated and identified with the aid of mesh screens. Sorting sieves, mesh size: 5 (4mm), 10 (2mm) and 60 (0.25mm).

HM-6  
**\$89<sup>80</sup>**  
set/3



## ORBITOR MODEL, WITH LIGHT

Model demonstrates daylight, night, seasons and phases of moon. Sun, earth and moon revolve around one another on this gear driven model. Sun is 15cm in diameter. An illustrated guide is included.



B750  
**\$179<sup>50</sup>**  
each

## SOLAR SYSTEM MODEL, WITH LIGHT

This 3D model allows students to study our solar system. Planets can be set by month to show their relative positions.

The 15cm sun is supported on a sturdy base with the outer most (dwarf) planet being 45cm from the sun. An illustrated guide is included with planet position tables.



B740  
**\$180**  
each



MAS-00819

**\$110**  
each

**ANALOG WEATHER STATION**

Indoor analog weather station with attractive blue face and stainless steel housing. Includes thermometer, barometer and hygrometer for complete weather analysis. Wall mountable with a 19cm face diameter.


**SECCHI DISC**

200mm disc in four quadrants. Weighted and includes 20m of line. Determine water clarity.

G513

**\$59**  
each

**GENERAL FOSSIL COLLECTION**

The General Fossil Collection is perfect for illustrating the major life forms present throughout geologic history. These 15 fossils are a great way to visually introduce students to life forms from the prehistoric era, along with a geologic timeline included with the collection to match the fossil with the era.



3005

**\$59**  
each

**BACKPACK LAB WATER QUALITY EDUCATIONAL TEST KIT**

HANNA chemical test kits and pocket testers provide teachers with a valuable tool in helping students assess the water quality of streams, rivers and lakes.



HI3817BP

**\$962<sup>50</sup>**  
each

**CLOUD BOTTLE**

Amaze students with this easy to perform cloud demonstration. Add a few drops of water inside the bottle, add pressure. When you lift the lid a cloud will form inside the bottle.

A thermometer strip records the temperature changes during the demonstration. 26cm tall.



P534

**\$35<sup>80</sup>**  
each

**UV LIGHT DETECTING BEADS, PKT/250**

Expose the beads to UV light and watch them change colour. Great for use in UV experiments. Pk/250.



UV750

**\$19**  
each

**UV TORCH, 21 LED, 395NM BLACK LIGHT**

With this ultra-bright and efficient 21-LED torch you can brighten-up UV colour change beads, fluoresce glow-in-the-dark objects (even during the day), search for security markings, check out fluorescent minerals in rocks and much more.



MAS-00235

**\$23<sup>59</sup>**  
each

**MOHS SCALE OF HARNESS - MINERAL COLLECTION**

This collection is the traditional Mohs Scale which assigned a "hardness" to ten key minerals with talc #1 (the softest) and diamond #10 (the hardest). The first 9 minerals are included in this set. Nine specimens approximately 2.5cm x 4cm, number-coded.



MC001

**\$42<sup>90</sup>**  
each


1103018

**\$65<sup>90</sup>**  
each

**TURBIDITY TUBE**

Measure water transparency (turbidity) where a Secchi disk cannot be used. Turbidity in NTU is a useful operational test of water clarity and can be used as an early warning test for contamination. Size: 605mm length, 25mm diameter.

Measure marking range: 10-400 NTUs

Clear polycarbonate tube