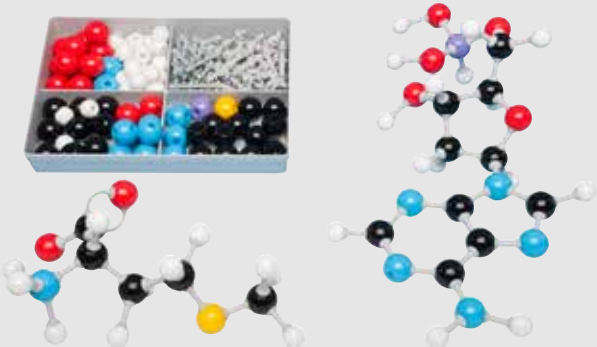


Science – Chemistry




Biochemistry	216
Chemicals	214
Electrolysis	217
Materials Properties	216
Molecular Models	216
Molecular Properties	217



Biochemistry Student Set - 112 Piece Set

£28.33
Order code 52-2604



1g Luminol
(3-Aminophthalhydrazide)
(NH₂C₆H₃.CO.NH.NH.CO)

£7.97
Order code 52-7499

Full range of Chemistry products available at:

www.rapidonline.com

CHEMICALS

From Acetone to Zinc powder

Vast range of chemicals available

NOTE:

Rapid Electronics supplies these products to customers in the expectation that they will be used for legitimate purposes. However, all chemicals, whether individually or in combination with other substances, have the potential to be extremely dangerous and pose a risk to human life.

All orders for chemical products will be subject to an approval procedure. Rapid Electronics reserves the right to withhold delivery if the identity of the customer cannot be confirmed. As part of this process, customers agree to their premises being searched by criminal investigation bodies.

Rapid is compliant with the REACH regulations regarding the registration, evaluation, authorisation and restriction of dangerous chemicals in the EU.

For delivery outside of the UK, please contact education@rapidonline.com.



Type	Quantity	Order code	1+
Chemicals A			
Acetone LR (Propanone LR) ((CH3)2CO)	500ml	52-7400	4.97
Acetone LR (Propanone LR) ((CH3)2CO)	1L	52-7401	5.65
Acetone LR (Propanone LR) ((CH3)2CO)	2.5L	52-7402	11.74
Agar fine powder	100g	52-7403	8.91
Agar fine powder	250g	52-7404	14.71
Albumen Egg Powder	100g	52-7405	5.57
Albumen Egg Powder	250g	52-7406	11.36
Aluminium Oxide LR (Alumina) (Al2O3)	500g	52-7407	4.14
Aluminium Powder Fine (Al)	500g	52-7408	20.42
4-Aminobenzoic Acid as Alternative	100g	52-7616	10.85
Di-Ammonium Iron (II) Sulphate 6-Water LR, (NH4)2SO4.FeSO3.6H2O 500g	500g	52-7409	16.62
Ammonium Nitrate LR (NH4NO3)	500g	52-7410	5.10
Amlyase (Bacterial Source)	10g	52-7411	4.42
Amlyase (Bacterial Source)	25g	52-7412	6.07
Amlyase (Bacterial Source)	100g	52-7413	23.81
Chemicals B			
Benedict's Reagent (Qualitative)	2.5L	52-7414	10.27
Benedict's Reagent (Qualitative)	500ml	52-7415	3.40
Benzoic acid	100g	52-7615	2.52
Benzyl Alcohol (Phenylmethanol)	200ml	52-7614	5.46
Bicarb indicator	500ml	52-7416	2.43
Biuret Reagent (Working) Solution	500ml	52-7417	3.72
Buffer Solution Borate pH10	500ml	52-7418	3.85
Buffer Solution Phthalate pH3	500ml	52-7419	3.85
Buffer Solution Phthalate pH4	500ml	52-7420	3.85
Buffer Solution Phthalate pH5	500ml	52-7421	3.85
Buffer Solution Phosphate pH6	500ml	52-7422	3.85
Buffer Solution Phosphate pH7	500ml	52-7423	3.85
Buffer Solution Borate pH8	500ml	52-7424	3.85
Buffer Tablets pH4 (Phthalate)	Pk of 50	52-7425	12.50
Buffer Tablets pH7 (Phosphate)	Pk of 50	52-7426	12.50
Buffer Tablets pH9.2 (Borate)	Pk of 50	52-7427	12.88
Butan-1-ol	500ml	52-7586	4.79
Butan-2-ol	500ml	52-7587	5.70
Butanal	100ml	52-7588	6.06
Butane-1,4-Diamine, (1,4-Diaminobutane), C4H12N	250g	52-7618	19.98
Butanoic acid	100ml	52-7589	9.69
Chemicals C			
Calcium carbide	100g	52-7590	6.16
Calcium Chloride Fused Granular Size 2.0- (CaCl2)	500g	52-7428	4.23
Calcium Granules (Ca)	100g	52-7429	11.17
Calcium Granules (Ca)	25g	52-7430	3.67
Calcium Sulphate LR (Plaster of Paris)	5kg	52-7431	11.02
Ceramic Fibre Wool (Mineral Wool)	500g	52-7432	5.74
Citric Acid Crystals LR (HO(COOH)(CH2COOH)2.H2O)	500g	52-7433	5.87
Citric Acid Crystals LR Un Nr (HO(COOH)(CH2COOH)2.H2O)	3kg	52-7434	16.47
Copper (II) Carbonate Basic LR (Cupric Carbonate Basic) (CuCO3Cu(OH)2)	500g	52-7435	12.81
Copper (II) Carbonate Basic LR (Cupric Carbonate Basic) (CuCO3Cu(OH)2)	250g	52-7436	6.70
Copper (II) Carbonate Basic LR Un Nr (Cupric Carbonate Basic) (CuCO3Cu(OH)2)	3kg	52-7437	60.47
Copper (2) Chloride	100g	52-7617	2.81
Copper (II) Chloride 2 Water LR (Cupric Chloride)(CuCl2.2H2O)	250g	52-7438	9.48
Copper (II) Oxide Powder LR (Cupric Oxide) (CuO)	500g	52-7439	13.88
Copper (II) Oxide Powder LR (Cupric Oxide) (CuO)	250g	52-7440	10.38
Copper (II) Sulphate 5 Water LR (Cupric Sulphate)(CuSO4.5H2O)	3kg	52-7441	16.93
Copper (II) Sulphate 5 Water LR (Cupric Sulphate) (CuSO4.5H2O)	500g	52-7442	6.80
Copper (II) Sulphate 5 Water LR (Cupric Sulphate) (CuSO4.5H2O)	1kg	52-7443	10.22
Copper (II) Sulphate Anhydrous LR (Cupric Sulphate Anhydrous) (CuSO4)	250g	52-7444	11.39
Copper (II) Sulphate Anhydrous LR (Cupric Sulphate Anhydrous) (CuSO4)	500g	52-7445	16.29
Copper foil	100g	52-7619	5.15
Copper Foil 0.10mm LR (Cu)	250g	52-7446	12.31
Copper Foil 0.10mm LR (Cu)	500g	52-7447	19.59
Copper Powder Precipitated (Cu)	100g	52-7448	6.48
Copper Small Pieces (Cu)	500g	52-7449	14.44
Cresol red	5g	52-7591	3.90
Cyclohexane LR (C6H12)	500ml	52-7450	6.03
Cyclohexane LR (C6H12)	2.5L	52-7451	16.07
Cyclohexene LR (Tetrahydrobenzene) (C6H10)	250ml	52-7452	9.76
Chemicals D			
1,6-Diaminohexane 5% Aqueous Solution	250ml	52-7453	6.94
1,6-Diaminohexane LR (Hexamethylenediamine) (NH2)(CH2)6NH2)	25g	52-7454	5.15
2-6 Dichlorophenolindophenol (D.C.P.I.P.)	1g	52-7455	3.99
2-6 Dichlorophenolindophenol (D.C.P.I.P.)	5g	52-7456	15.45
2-6 Dichlorophenolindophenol Tablets (D.C.P.I.P.)	Pk of 10	52-7457	7.91
Di(dodecanoxy)Peroxide/ Di-Lauroyl Peroxide	10g	52-7592	4.79
Chemicals E			
Eosin y 24050/Acid Red 87	87.25g	52-7593	9.69
Ethanol Absolute 99/100% (Ethyl alcohol) (C2H5OH)	500ml	52-7458	50.75
Ethanol Absolute 99/100% (Ethyl alcohol) (C2H5OH)	100ml	52-7459	13.98

Chemicals F			
Fehling's Solution No 1	500ml	52-7460	4.52
Fehling's Solution No 2	500ml	52-7461	6.21
D (-) Fructose (D-Laeulose) (C6H12O6)	100g	52-7462	2.74
Formaldehyde (Methanal) LR (Lq 5L) UN2209, Solution, 8, III	100ml	52-7622	1.58
Chemicals G			
D (+) Galactose Anhydrous LR (C6H12O6)	25g	52-7463	7.42
D-Glucose Anhydrous LR (Dextrose) (C6H12O6)	500g	52-7464	4.06
D-Glucose Monohydrate LR (Dextrose) (C6H12O6)	500g	52-7465	3.61
Glycerol (Glycerine) LR (Propane-1,2,3-Triol) (HOCH2CH(OH)CH2OH)	500ml	52-7466	8.32
Glycerol (Glycerine) LR (Propane-1,2,3-Triol) (HOCH2CH(OH)CH2OH)	2.5L	52-7467	23.11
Chemicals H			
Hydrochloric Acid 0.1M (0.1N) Standard Solution (HCl)	2.5L	52-7468	8.80
Hydrochloric Acid 1M (N) Standard Solution (HCl)	1L	52-7469	5.54
Hydrochloric Acid 1M (N) Standard Solution (HCl)	2.5L	52-7470	10.83
Hydrochloric Acid 2M (2N) Standard Solution (HCl)	1L	52-7471	3.83
Hydrochloric Acid 2M (2N) Standard Solution (HCl)	2.5L	52-7472	9.26
Hydrochloric Acid 36% AR (HCl)	1L	52-7473	6.80
Hydrochloric Acid 36% LR (HCl)	1L	52-7474	6.16
Hydrochloric Acid 36% LR (HCl)	2.5L	52-7475	12.33
Hydrogen Peroxide 100 Volume (H2O2)	500ml	52-7476	5.02
Hydrogen Peroxide 100 Volume (H2O2)	1L	52-7477	6.21
Hydrogen Peroxide 100 Volume (H2O2)	2L	52-7478	12.61
Hydrogen Peroxide 20 Volume (H2O2)	2L	52-7479	8.13
Chemicals I			
Iodine Resublimed LR (I2)	100g	52-7480	13.88
Iodine Solution with 1% Potassium Iodide	500ml	52-7481	5.42
1-Iodobutane LR (Butyl Iodide) (CH3(CH2)3I)	25ml	52-7482	12.02
Iron (II) Sulphate 7-Water LR (Ferrous Sulphate) (FeSO4.7H2O)	500g	52-7483	9.87
Iron (3) Nitrate	250g	52-7620	5.32
Iron (III) Nitrate 9 - Water LR (Ferric Nitrate) (Fe(NO3)3.9H2O)	500g	52-7484	9.76
Iron (III) Oxide Calcined LR (Ferric Oxide) (Fe2O3)	500g	52-7485	4.54
Iron-Filings Coarse (Fe)	500g	52-7487	3.96
Iron-Filings Coarse (Fe)	3kg	52-7488	11.28
Iron Filings Fine (Fe)	500g	52-7486	3.36
Iron-Filings Fine (Fe)	3kg	52-7489	11.28
Iron-Powder, Reduced By Hydrogen (Fe)	500g	52-7490	12.17
Isoamyl (Isopentyl) Alcohol	200ml	52-7613	3.94
Chemicals L			
L-Ascorbic Acid (Vitamin C) (C6H8O6)	100g	52-7491	4.01
Lead Carbonate	250g	52-7596	9.35
Lead (2) Nitrate	250g	52-7621	7.18
Lead (II) Nitrate LR (Pb(NO3)2)	500g	52-7492	12.12
Lead Foil LR 0.5mm (Pb)	500g	52-7493	8.43
Lime Water (Calcium Hydroxide Solution)	2.5L	52-7494	7.35
Lipase	10g	52-7495	6.66
Lipase	25g	52-7496	11.16
Lithium Chloride Anhydrous LR (LiCl)	100g	52-7497	7.95
Lithium Metal in Liquid Paraffin (Li)	10g	52-7498	11.70
Luminal (3-Aminophthalhydrazide) (NH2C6H3.CO.NH.NH.CO)	1g	52-7499	7.97
Chemicals M			
Magnesium Powder (Mg)	100g	52-7500	8.46
Magnesium Powder (Mg)	500g	52-7501	20.44
Magnesium Ribbon LR (Mg)	25g	52-7502	4.63
Magnesium Sulphate 7-Water LR (MgSO4.7H2O)	1kg	52-7503	5.31
Maltose LR (C12H22O11.H2O)	100g	52-7504	8.75
Manganese (IV) Oxide, Precipitated LR (MnO2)	250g	52-7505	7.40
Manganese (IV) Oxide - Powder (Manganese Dioxide) (MnO2)	500g	52-7506	12.48
Marble Chips 4-6mm (CaCO3)	3kg	52-7507	7.91
Marble Chips Medium - Large (CaCO3)	3kg	52-7508	5.46
Methanol	100ml	52-7622	1.58
Methanoic Acid	250ml	52-7597	2.67
Methanol LR (Methyl alcohol) (CH3OH)	500ml	52-7509	3.62
Methylated Spirit Industrial 98/99% W/W (C2H5OH & CH3OH)	2.5L	52-7510	9.26
Methylated Spirit Mineralised (Blue) (C2H5OH & CH3OH)	2.5L	52-7511	6.41
2-Methylpropan-1-ol (Isobutyl alcohol)	100ml	52-7585	2.19
Methyl Salicylate (Oil of Wintergreen)	100ml	52-7598	4.61
Chemicals N			
N-Hexane LR (Lq 1L) (CH3(CH2)4CH3)	100ml	52-7512	3.52
N-Hexane LR (Lq 1L) (CH3(CH2)4CH3)	500ml	52-7513	11.10
Chemicals O			
Octan-1-ol	250ml	52-7599	9.76
Oil Crude Synthetic (CLEAPSE formulation)	500ml	52-7514	9.25
Orcein Acetic	100ml	52-7600	8.67
Chemicals P			
Phenol Red Indicator	5g	52-7601	3.99
Phenolphthalein 1% Solution	500ml	52-7515	5.19
Phenolphthalein 1% Solution	100ml	52-7516	2.72
Phenylethene (Styrene)	250ml	52-7602	6.71
Phenyl Salicylate LR (Salol / Phenyl-2-Hydroxybenzoate) (C6H4(OH)COOC6H5)	250g	52-7517	14.20
Phosphoric acid	250ml	52-7603	4.80
Polyvinyl Alcohol (Ethenol) (CH2 CHOH)n	250ml	52-7518	8.16
Potassium Bromide LR (KBr)	500g	52-7519	17.38
Potassium Carbonate Anhydrous LR (K2CO3)	500g	52-7520	6.56

Potassium Chlorate	100g	52-7623	4.80
Potassium Chlorate (V) LR (KClO3)	500g	52-7521	21.04
Potassium Chloride LR (KCl)	500g	52-7522	6.98
Potassium Dihydrogen Phosphate	250g	52-7624	2.94
Potassium Dihydrogen Phosphate (V) LR (KH2PO4)	500g	52-7523	5.46
Potassium Iodide LR (KI)	100g	52-7524	10.68
Potassium Iodide LR (KI)	500g	52-7525	51.87
Potassium Manganate (VII) LR (Potassium permanganate) (KMnO4)	500g	52-7526	8.91
Potassium Manganate (VII) LR (Potassium permanganate) (KMnO4)	1kg	52-7527	10.38
Potassium Nitrate	250g	52-7625	3.08
Potassium Nitrate LR (KNO3)	500g	52-7528	4.91
Propan-2-ol LR (Lq 1L) (iso-Propyl alcohol) ((CH3)2CHOH)	500ml	52-7529	10.19
Propan-2-ol LR (Lq 1L) (iso-Propyl alcohol) ((CH3)2CHOH)	2.5L	52-7530	25.66
Propan-1-ol LR (Lq 1L) (n-Propyl alcohol) (CH3CH2CH2OH)	500ml	52-7531	5.19
Propan-1-ol LR (Lq 1L) (n-Propyl alcohol) (CH3CH2CH2OH)	2.5L	52-7532	12.50
Propanoic Acid	250ml	52-7626	4.20
Propionaldehyde	100ml	52-7604	6.80
Propionic Acid LR (Propanoic acid) (CH3CH2COOH)	500ml	52-7533	7.34
Chemicals S			
Salicylic Acid LR (2-Hydroxybenzoic acid) (C6H4OHCOOH)	100g	52-7534	5.15
Salicylic Acid LR (2-Hydroxybenzoic acid) (C6H4OHCOOH)	500g	52-7535	15.15
Acid Washed Sand	1kg	52-7536	4.61
Schiff's Aldehyde Testing Reagent	500ml	52-7605	8.36
Sebacoyl Chloride 5% in Cyclohexane (ClO(H)6Cl2O2)	100ml	52-7537	7.40
Silicone Gease	50g	52-7606	9.92
Silver Nitrate LR (AgNO3)	25g	52-7538	33.28
Silver Nitrate LR (AgNO3)	100g	52-7539	117.40
Sodium Acetate 3-Water LR (Sodium Ethanoate) (CH3COONa.3H2O)	500g	52-7540	4.70
Sodium Alginate	25g	52-7541	3.28
Sodium Carbonate Anhydrous LR (Na2CO3)	500g	52-7542	3.53
Sodium Carbonate Anhydrous LR (Na2CO3)	1kg	52-7543	4.97
Sodium Carbonate Anhydrous LR (Na2CO3)	3kg	52-7544	8.38
Sodium Chloride LR (NaCl)	500g	52-7545	2.32
Sodium Chloride LR (NaCl)	1kg	52-7546	3.17
Sodium Chloride LR (NaCl)	3kg	52-7547	5.31
Sodium Chloride Native Rock Salt (NaCl)	1kg	52-7548	2.74
Sodium Hydrogen Carbonate LR (Sodium bicarbonate) (NaHCO3)	500g	52-7549	3.40
Sodium Hydrogen Carbonate LR (Sodium bicarbonate) (NaHCO3)	1kg	52-7550	3.21
Sodium Hydrogen Carbonate LR (Sodium bicarbonate) (NaHCO3)	3kg	52-7551	9.70
Di-Sodium Hydrogen Phosphate (V)-12-Water, (Na2HP04.12H2O			

Materials Properties

eisco
TECH EDUCATION

Planck's Constant Apparatus



This apparatus is designed to determine the approximate value of **Planck's constant**, using a range of LEDs of known wavelength, to allow the electron/photon energy to be calculated. The apparatus includes 7 LEDs, covering the light range from deep blue at 470nm to near IR at 940nm, mounted on a box with 4mm sockets for attachment to a voltmeter and ammeter for voltage and current measurements. By monitoring the voltage at which each LED just begins to emit light, a graph of energy input as a function of light emitted frequency can be plotted and an approximate value of Planck's constant can be deduced.

- Requires a 9V DC power supply

Type	Order code	1+
Planck's constant app	52-2639	36.67

550572

eisco
TECH EDUCATION

Solid Materials Set



A selection of materials in the form of rectangular blocks, intended to familiarize students with the appearance, feel, texture, hardness and density of a range of common substances.

- Blocks, 50 x 40 x 30mm: softwood, hardwood, paraffin wax, aluminium, iron, foamed polystyrene
- Blocks, 20 x 20 x 100mm: Perspex, glass, slate, aluminium, softwood, marble
- Lead 50 x 50 x 20mm
- Aluminium 50 x 50 x 80mm
- Hardwood 50 x 50 x 200mm
- Brass 20 x 20 x 50mm
- Iron 40 x 40 x 20mm
- Supplied as a set of 34 blocks, 2 of each material
- **Eisco type PH0114**

Type	Order code	1+
Materials set	52-3346	67.20

568535

Rapid

Metal Block Calorimeter Bundle



This money-saving calorimeter bundle provides a convenient way to buy four metal block calorimeters, made from different metals, for specific heat capacity comparison experiments.

Each cylindrical block has a mass of 1kg adjusted to an accuracy of 2%. The blocks are drilled with two holes: a larger 12.5mm central hole for a heater and a smaller hole, 7.5mm in diameter, for a thermometer or temperature sensor.

- Bundle contains one each of:
 - Aluminium block calorimeter
 - Brass block calorimeter
 - Copper block calorimeter
 - Steel block calorimeter

Type	Order code	1+
Calorimeter bundle	78-7207	65.65

568198

Biochemistry

Cochranes of Oxford



Biochemistry Model Set (Orbit)

With 400 atoms and 395 bonds housed in a convenient compartmentalised box, the Orbit Biochemistry Class Set has a large enough quantity of atoms to enable you to construct multiple models for group activities. The contents allow you to cover topics commonly studied at A level (ages 17 to 18), college and university. These include amino acids; monosaccharides, glycerol, fatty acids, steroids, purines and pyrimidines, peptides, disaccharides, lipids, nucleosides, nucleotides, proteins, polysaccharides and nucleic acids. A 44 page booklet covers the above topics in detail.

- Compartmented box
- 400 atoms, 395 bonds
- Construct multiple models for group activities
- Allows you to cover topics commonly studied at A level (ages 17 to 18), college and university
- Includes amino acids; monosaccharides, glycerol, fatty acids, steroids, purines and pyrimidines, peptides, disaccharides, lipids, nucleosides, nucleotides, proteins, polysaccharides, nucleic acids
- 44 page booklet covers the above topics

Type	Order code	1+
Orbit Biochemistry	52-7153	43.20

502008

Rapid

Biochemistry Teacher's Set



This Molymod molecular model set is intended for use by teachers of biochemistry and includes a range of spheres and links suitable for making a wide range of molecular models.

- Supplied in 2 plastic boxes with instruction sheet

Set includes: 66 Carbon, 34 Nitrogen, 40 Oxygen, 6 Phosphorus, 2 Sulphur, 2 Metal and 105 Hydrogen spheres; 100 short white and 60 non-visible links.

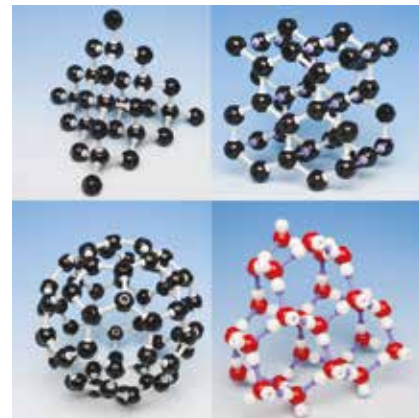
Type	Order code	1+
Teacher's set	52-2614	90.80

550522

Molecular Models

molymod®

Crystal Structure Molecular Model Kits



A range of Molymod Molecular Model Sets showing the structure of various crystalline substances.

Scales: Open / Ball & stick models: 2.5cm / Angstrom, Closed / semi-space filling models: 1.5cm / Angstrom

Atom-parts: range from 17 to 23mm in diameter.

Bonds: Single bonds are represented by medium links (19mm) and multiple bonds by longer, flexible links (30mm). For compact models, bonds are represented by short links (2mm).

Valence: Represented by the number of holes: 1 hole (I), 2 holes (II), 3 holes (III), 4 holes (IV), 5 holes (V), 6 holes (VI)

Kits available:

- Diamond - 30 atoms
- Graphite - 45 atoms
- Ice - 26 water units

For technical specialisation visit www.rapidonline.com

Type	Order code	1+
Diamond	52-0476	10.26
Graphite	52-0477	12.53
Ice 26 water units	52-0479	15.52

529540

Rapid
education

We bring STEAM to life

sales@rapidonline.com

molymod®

Molecular Model Sets - Inorganic-Organic



Molymod Molecular Model Sets are the original dual-scale, quality system of molecular and atomic models.

Scales: Open / Ball & stick models: 2.5cm / Angstrom, Closed / semi-space filling models: 1.5cm / Angstrom

Atom-parts: range from 17 to 23mm in diameter.

Bonds: Single bonds are represented by medium links (19mm) and multiple bonds by longer, flexible links (30mm). For compact models, bonds are represented by short links (2mm).

Valence: Represented by the number of holes: 1 hole (I), 2 holes (II), 3 holes (III), 4 holes (IV), 5 holes (IV), 6 holes (VI)

- Inorganic - Organic sets
- Available as teacher and student sets
- **Teacher Set contains 108 atoms: 14 Hydrogen (I, II), 20 Carbon (IV, V), 22 Oxygen (II, IV), 10 Nitrogen (III, IV), 13 Sulphur (II, IV, VI), 7 Phosphorus (III, IV, V), 8 Halogen (I), 14 Metal (I, II, III, IV, VI), 18 Lone pair 2D paddles (6 pink, 6 purple, 6 beige) Links: 38 Medium grey, 12 medium purple, 36 Long flexible**
- **Student set contains 52 atoms: 14 Hydrogen (I), 6 Carbon (IV), 7 Oxygen (II, IV), 3 Nitrogen (III, IV), 2 Sulphur (II, VI), 2 Phosphorus (III, V), 6 Halogen (I), 8 Metal (I, II, III, IV, VI), 4 Brown (III, IV, V, VI), 3 Lone pair 2D paddles (beige) Links: 20 Medium grey, 5 Medium purple, 12 Long flexible**

Important notice: These products are designed for educational use and are only suitable for students 12 years and over.

WARNING: CHOKING HAZARD - Small parts. Not for children under 3 years.

Type	Order code	1+
Teacher set 108 atoms	52-0474	29.13
Student set 52 atoms	52-0475	14.61

Molecular Properties

eisco
Trade & Education | Europe

Whitley Bay Smoke Cell

The Whitley Bay smoke cell is used for the observation of 'Brownian' or random motion in smoke particles.

It consists of a box with flanges that allow it to be easily attached to a standard microscope.

The box contains a smoke cell, a cylindrical condensing lens and a 12V, 3W festoon bulb. The apparatus is pre-set to focus the light at the correct height.

- Supplied with detailed instructions and a squeeze bottle type smoke generator
- 4mm electrical connections
- Box dimensions 90 x 46 x 20mm
- **Eisco type PH0203B**

Type	Order code	1+
Smoke cell	52-3425	14.04

eisco
Trade & Education | Europe

Kinetic Gas Theory Demonstration Apparatus

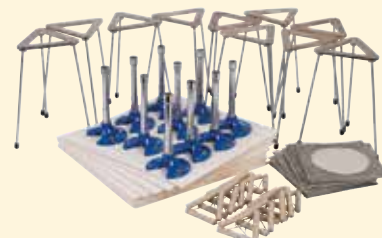
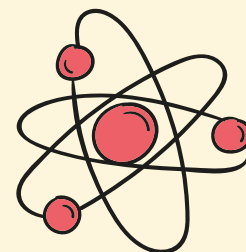
This apparatus allows students to study the motion and behaviour of molecules in gases.

An electric motor running at 4 to 12V DC vibrates a small platform inside a transparent tube, so that a number of small steel balls is vibrated violently inside the tube.

An increase in the violence of the vibration simulates an increase in gas temperature and an increase in the weight of the 'float' simulates an increase in gas pressure.

- Demonstrates kinetic gas theory
- Supplied with balls and 2 floats
- Includes instruction manual
- CE approved
- **Eisco type PH0203**

Type	10469	Order code	1+
Kinetic theory app.	52-3415	27.25	



Chemistry Basics Bundle

This money-saving chemistry basics bundle provides a convenient way to buy 5 types of popular heating-related apparatus for your chemistry lab.

- 10x Eisco laboratory Bunsen burner - natural gas 13mm
- 10x Eisco tripod 120mm wide x 210mm tall
- 1x RVFM heat resistant asbestos-free Bunsen burner mats 300 x 300mm - pack of 10
- 10x Eisco pipe clay triangles 60mm
- 1x Eisco wire gauze with ceramic centre 150 x 150mm - pack of 10

Order code 78-7210

£109.89



Electrolysis

eisco
Trade & Education | Europe

Brownlee Water Electrolysis Apparatus

Brownlee's Water Electrolysis Apparatus is used to demonstrate that electrically conductive liquids can be decomposed and resolved into their constituent elements by means of a unidirectional electric current. The gaseous components formed by this method can be trapped and their relative volumes estimated.

The apparatus consists of a support which rests on a 1 litre beaker or jar and has two clips that each hold an inverted test tube. Platinum electrodes are positioned under the inverted test tubes and are attached to insulated connecting rods which are attached to binding posts mounted on the support. When the beaker is filled with a water-based solution and a direct current is passed between the electrodes, gases will begin to collect in the inverted test tubes.

- Requires a 1 litre beaker or jar, 6V battery or 10V DC power supply (not included)
- **Includes:**
- 1x apparatus
- 2x corks
- 2x inverted test tubes
- Includes full instruction manual
- **Eisco type PH0941B**

Note: battery, power supply and battery jar are not included.

Type	Order code	1+
Brownlee water electrolysis	52-3604	29.95

Pricing

Pricing correct at time of going to press.
For up-to-date pricing visit
www.rapidonline.com



THAMES KOSMOS

Bestselling range of top quality science kits which enable children to dive into the world of STEM in a fun and engaging way



**GENETICS
& DNA**

£24.25

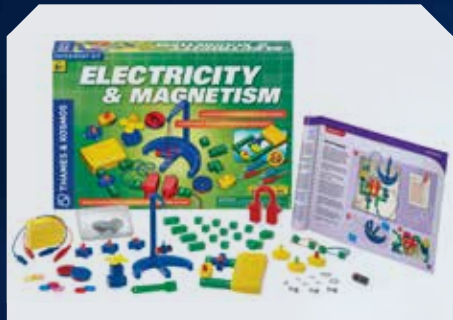
Order code 70-0343
Ages 10+



**AIR & WATER
POWER**

£36.81

Order code 70-0357
Ages 8+



**ELECTRICITY
& MAGNETISM**

£47.40

Order code 70-0354
Ages 8+



**ADVANCED PHYSICS
PRO SCIENCE**

£58.80

Order code 70-0361
Ages 10+



**WIND POWER
RENEWABLE ENERGY**

£37.97

Order code 70-0387
Ages 8+



**POWER HOUSE
SUSTAINABLE LIVING**

£53.99

Order code 70-0363
Ages 10+

www.rapidonline.com/brands/thames-kosmos