

CAPS ALIGNED
COMPLETE SCIENCE KIT AND APPARATUS
CATALOGUE
Grade 4 -12

Pfunzo Ye Siwe



Suppliers Of Educational Kits



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Contents

Catalogue of the contents of the three science kits we offer :

1. Grade 4 to 6 Natural Science and Technology.
2. Grade 7 to 9 Natural Sciences.
3. Grade 10 to 12 Physical Sciences.

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E	2	GENERAL LAB AND GLASSWARE
I	3	WAVES, SOUND AND LIGHT
R	4	ELECTRICITY AND MAGNETISM
O	5	MECHANICS
G	6	ASTRONOMY
E	7	CHEMICALS
T	8	MISCELLANEOUS
A	9	CHARTS
C	10	MANUALS

The Periodic Table of Elements

Legend:

- Metals
- Nonmetals
- Metalloids
- Noble Gases
- Halogens
- Alkali Earth Metals
- Super Heavy Elements
- Transition Metals
- Rare Earth Elements (REEs)
- Other Nonmetals
- Lanthanides
- Actinides

Periodic Table Data:

Period	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1	H	He																
2	Li	Be	B	C	N	O	F	Ne										
3	Na	Mg	Al	Si	P	S	Cl	Ar										
4	K	Ca	Sc	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Br	Kr
5	Rb	Sr	Y	Zr	Nb	Mo	Tc	Ru	Rh	Pd	Ag	Cd	In	Sn	Sb	Te	I	Xe
6	Cs	Ba	La	Hf	Ta	W	Re	Os	Ir	Pt	Au	Hg	Tl	Pb	Bi	Po	At	Rn
7	Fr	Ra	Ac	Rf	Db	Sg	Bh	Hs	Mt									

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COLOUR INDICATORS AND pH-SCALE TABLES

INDICATOR	ACID / BASE INDICATORS	UPPER COLOUR
methyl violet	0.0 - 2.0	yellow
methyl orange	3.1 - 4.4	yellow
orange red	3.1 - 5.5	yellow
bromocresol green	4.0 - 5.5	yellow
methyl red	4.4 - 6.2	red
bromophenol blue	3.0 - 4.6	yellow
bromocresol purple	5.2 - 7.0	purple
phenol red	6.8 - 8.2	red
cresol red	7.2 - 8.8	red
phenolphthalein	8.2 - 10.0	pink
thymolphthalein	9.3 - 10.5	pink

UNIVERSAL INDICATOR

Reddening power with a drop of acid Blue colour with a drop of alkali

Reddening power with a drop of acid Blue colour with a drop of alkali

pH-scale

0: Strong acid
1: Strong acid
2: Strong acid
3: Strong acid
4: Strong acid
5: Weak acid
6: Weak acid
7: Neutral
8: Weak alkali
9: Weak alkali
10: Strong alkali
11: Strong alkali
12: Strong alkali
13: Strong alkali
14: Strong alkali

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Grade 10 to 12 Senior phase KIT

Measuring apparatus

Cloth Tape Measure



G 10 - 12	FET - 001
-----------	-----------

G 7 - 9	SP - 001
---------	----------

G 4 - 6	IP - 001
---------	----------

Tape Measure



G 10 - 12	FET - 002
-----------	-----------

G 7 - 9	SP - 002
---------	----------

G 4 - 6	IP - 002
---------	----------

Folding Tape Measure



G 10 - 12	FET - 003
-----------	-----------

G 7 - 9	SP - 003
---------	----------

G 4 - 6	IP - 003
---------	----------

Protractor

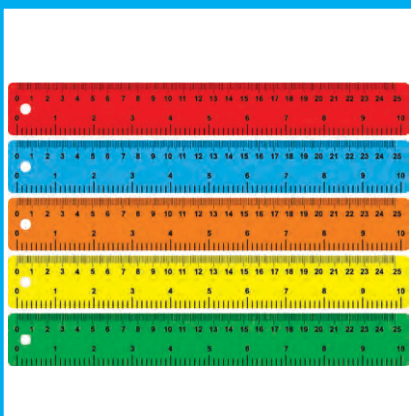


G 10 - 12	FET - 004
-----------	-----------

G 7 - 9	SP - 004
---------	----------

G 4 - 6	IP - 004
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Plastic Rulers

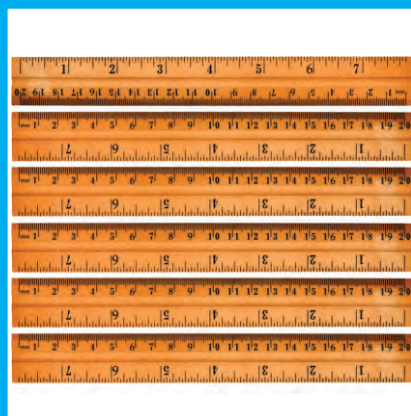


G 10 - 12	FET - 005
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G 7 - 9	SP - 005
---------	----------

G 4 - 6	IP - 005
---------	----------

Wooden Rulers



G 10 - 12	FET - 006
-----------	-----------

G 7 - 9	SP - 006
---------	----------

G 4 - 6	IP - 006
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Measuring apparatus

Digital Stop watch

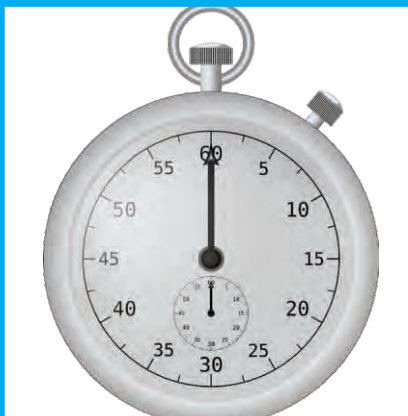


G 10 - 12 FET - 007

G 7 - 9 SP - 007

G 4 - 6 IP - 007

Analogue Stop watch



G 10 - 12 FET - 008

G 7 - 9 SP - 008

G 4 - 6 IP - 008

Mass pieces



G 10 - 12 FET - 009

G 7 - 9

G 4 - 6

Mass pieces on hook



G 10 - 12 FET - 010

G 7 - 9

G 4 - 6

Kitchen Scale



G 10 - 12

G 7 - 9 SP - 011

G 4 - 6 IP - 011

Kitchen Scale - Digital



G 10 - 12

G 7 - 9 SP - 012

G 4 - 6 IP - 012

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Measuring apparatus

Double beam balance



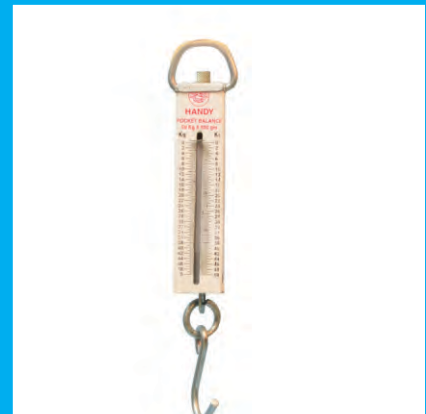
G 10 - 12	
G 7 - 9	SP - 013
G 4 - 6	IP - 013

Triple beam balance



G 10 - 12	
G 7 - 9	SP - 014
G 4 - 6	IP - 014

Spring balance



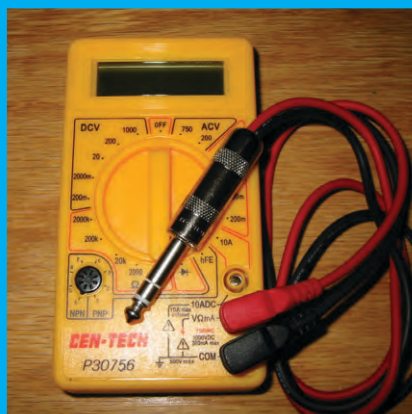
G 10 - 12	
G 7 - 9	SP - 015
G 4 - 6	IP - 015

Ammeter



G 10 - 12	
G 7 - 9	SP - 016
G 4 - 6	IP - 016

Multimeter



G 10 - 12	
G 7 - 9	SP - 017
G 4 - 6	IP - 017

Volt meter



G 10 - 12	
G 7 - 9	SP - 018
G 4 - 6	IP - 018

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Measuring apparatus

Galvanometer



G 10 - 12 FET - 019

G 7 - 9

G 4 - 6

Thermometer

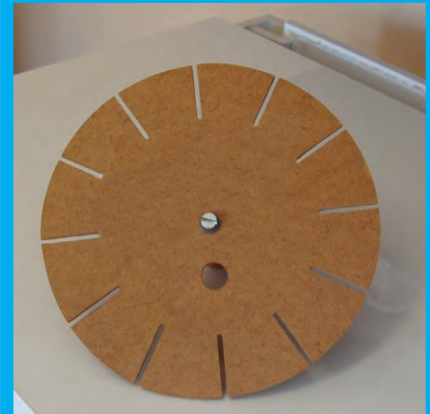


G 10 - 12 FET - 020

G 7 - 9 SP - 020

G 4 - 6 IP - 020

Stroboscope



G 10 - 12 FET - 021

G 7 - 9

G 4 - 6

Mathematics Set



G 10 - 12 FET - 022

G 7 - 9 SP - 022

G 4 - 6 IP - 022

Electroscope



G 10 - 12 FET - 023

G 7 - 9

G 4 - 6

Force table



G 10 - 12 FET - 024

G 7 - 9

G 4 - 6

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General Laboratory

Test tube 24mm



G 10 - 12 FET - 025

G 7 - 9 SP - 025

G 4 - 6 IP - 025

Test tube rack - Wooden



G 10 - 12 FET - 026

G 7 - 9 SP - 026

G 4 - 6 IP - 026

Test tube rack



G 10 - 12 FET - 027

G 7 - 9 SP - 027

G 4 - 6 IP - 027

Beakers

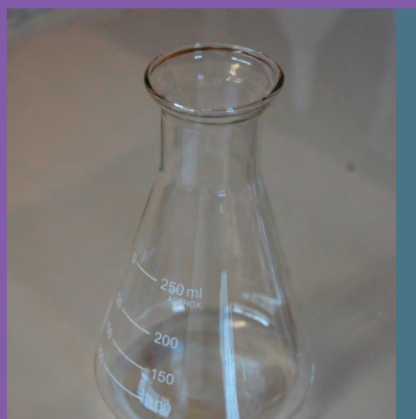


G 10 - 12 FET - 028

G 7 - 9 SP - 028

G 4 - 6 IP - 028

Conical flask 250ml

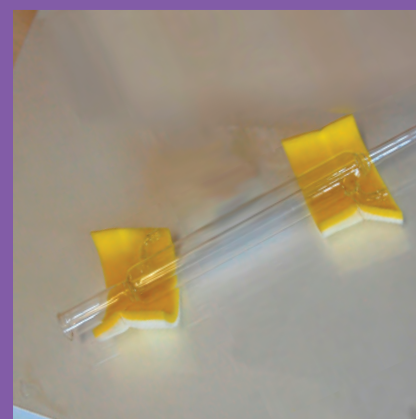


G 10 - 12 FET - 029

G 7 - 9 SP - 029

G 4 - 6 IP - 029

Liebig condenser



G 10 - 12 FET - 043

G 7 - 9

G 4 - 6

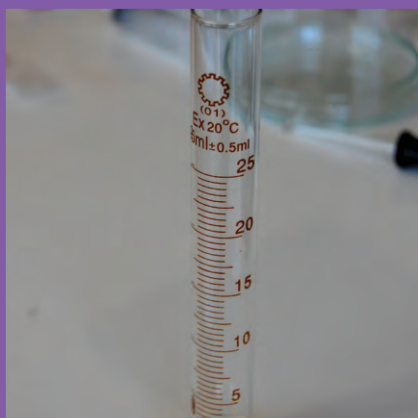
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General Laboratory

Measuring cylinder 25ml

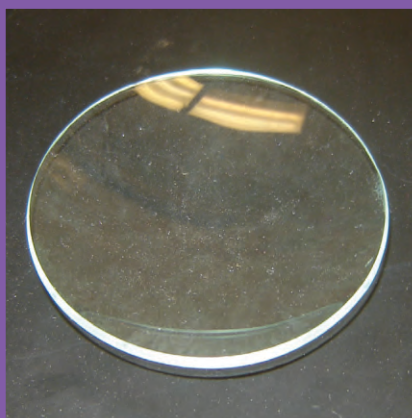


G 10 - 12 FET - 031

G 7 - 9 SP - 031

G 4 - 6 IP - 031

Watch glass



G 10 - 12 FET - 032

G 7 - 9 SP - 032

G 4 - 6 IP - 032

Pipette



G 10 - 12 FET - 033

G 7 - 9 SP - 033

G 4 - 6 IP - 033

Graduated pipette



G 10 - 12 FET - 034

G 7 - 9 SP - 034

G 4 - 6 IP - 034

Glass Burette - Ptfе stopcock



G 10 - 12 FET - 1053

G 7 - 9

G 4 - 6

Burettes



G 10 - 12 FET - 036

G 7 - 9

G 4 - 6

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General Laboratory

Glass Funnel



G 10 - 12	FET - 037
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G 7 - 9	SP - 037
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G 4 - 6	
---------	--

Plastic Funnel



G 10 - 12	
-----------	--

G 7 - 9	
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G 4 - 6	IP - 038
---------	----------

Glass funnel long stem



G 10 - 12	FET - 039
-----------	-----------

G 7 - 9	SP - 039
---------	----------

G 4 - 6	
---------	--

Evaporating dish



G 10 - 12	FET - 040
-----------	-----------

G 7 - 9	SP - 040
---------	----------

G 4 - 6	IP - 040
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Gas jar

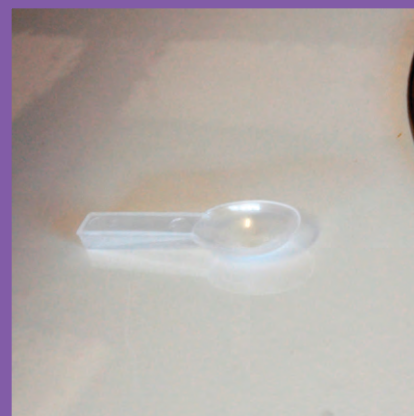


G 10 - 12	FET - 041
-----------	-----------

G 7 - 9	SP - 041
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G 4 - 6	IP - 041
---------	----------

Plastic spoon



G 10 - 12	FET - 042
-----------	-----------

G 7 - 9	SP - 042
---------	----------

G 4 - 6	IP - 042
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General Laboratory

Porcelain Retort stand



G 10 - 12 FET - 030

G 7 - 9

G 4 - 6

I

Bosshead - Natural alloy

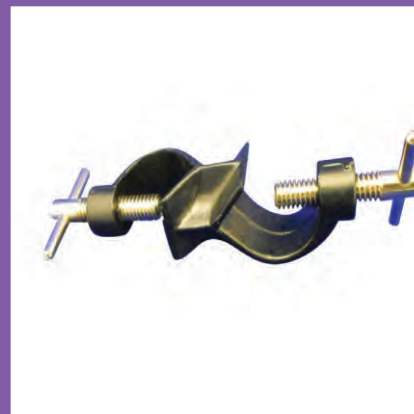


G 10 - 12 FET - 046

G 7 - 9

G 4 - 6

Bosshead - Iron



G 10 - 12 FET - 045

G 7 - 9

G 4 - 6

Universal retort clamp



G 10 - 12 FET - 056

G 7 - 9

G 4 - 6

3 prong retort clamp



G 10 - 12 FET - 054

G 7 - 9

G 4 - 6

Burette clamp



G 10 - 12 FET - 053

G 7 - 9

G 4 - 6

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General Laboratory

Bottle brush



G 10 - 12 FET - 049

G 7 - 9 SP - 049

G 4 - 6 IP - 049

Burette brush



G 10 - 12 FET - 050

G 7 - 9 SP - 050

G 4 - 6 IP - 050

Cylinder brush



G 10 - 12 FET - 051

G 7 - 9 SP - 051

G 4 - 6 IP - 051

Beaker - Low form plastic



G 10 - 12

G 7 - 9

G 4 - 6 IP - 052

Bottle wash



G 10 - 12 FET - 048

G 7 - 9 SP - 048

G 4 - 6 IP - 048

Stirring rods



G 10 - 12 FET - 035

G 7 - 9 SP - 035

G 4 - 6 IP - 035

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General Laboratory

Gas jar cover



G 10 - 12 FET - 069

G 7 - 9 SP - 069

G 4 - 6 IP - 069

Glass Petri dish



G 10 - 12 FET - 055

G 7 - 9 SP - 055

G 4 - 6 IP - 055

Beaker - Tall form



G 10 - 12 FET - 044

G 7 - 9

G 4 - 6

Latex gloves



G 10 - 12 FET - 057

G 7 - 9 SP - 057

G 4 - 6 IP - 057

Safety Goggles



G 10 - 12 FET - 058

G 7 - 9 SP - 058

G 4 - 6 IP - 058

Gauze Flat form



G 10 - 12 FET - 059

G 7 - 9 SP - 059

G 4 - 6 IP - 059

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General Laboratory

Deflagrating spoon



G 10 - 12 FET - 060

G 7 - 9

G 4 - 6

Test tube holder - wood



G 10 - 12 FET - 061

G 7 - 9 SP - 061

G 4 - 6 IP - 061

Dropper



G 10 - 12 FET - 062

G 7 - 9 SP - 062

G 4 - 6 IP - 062

Tripod



G 10 - 12 FET - 063

G 7 - 9 SP - 063

G 4 - 6 IP - 063

Wooden Retort stand



G 10 - 12 FET - 064

G 7 - 9

G 4 - 6

Plastic tubingcock



G 10 - 12 FET - 065

G 7 - 9 SP - 065

G 4 - 6 IP - 065

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General Laboratory

Syringes



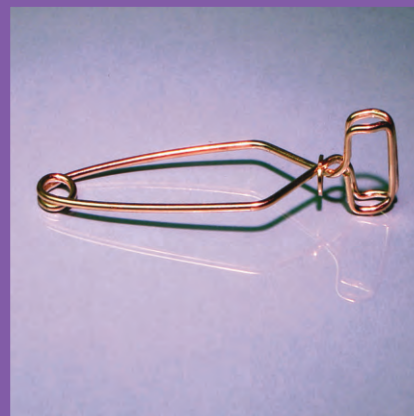
G 10 - 12	FET - 066
G 7 - 9	SP - 066
G 4 - 6	IP - 066

Measuring Cylinders (Plastic)



G 10 - 12	
G 7 - 9	
G 4 - 6	IP - 067

Test tube holder - brass



G 10 - 12	FET - 068
G 7 - 9	SP - 068
G 4 - 6	IP - 068

Plastic bottles



G 10 - 12	FET - 047
G 7 - 9	SP - 047
G 4 - 6	IP - 047

Spatula



G 10 - 12	FET - 070
G 7 - 9	SP - 070
G 4 - 6	IP - 070

Crucible tongs



G 10 - 12	FET - 071
G 7 - 9	SP - 071
G 4 - 6	IP - 071

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General Laboratory

Electrode plates



G 10 - 12	FET - 072
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G 7 - 9	
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G 4 - 6	I
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Water bowl



G 10 - 12	FET - 073
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G 7 - 9	SP - 073
---------	----------

G 4 - 6	IP - 073
---------	----------

Rubber stoppers



G 10 - 12	FET - 074
-----------	-----------

G 7 - 9	SP - 074
---------	----------

G 4 - 6	IP - 074
---------	----------

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General Laboratory

Grade 4-6 Intermediate phase KIT



G 10 - 12	
G 7 - 9	
G 4 - 6	IP - 064

Grade 7 to 9 Senior phase KIT



G 10 - 12	
G 7 - 9	SP - 065
G 4 - 6	

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Waves, Sound and Light

Tuning fork



G 10 - 12	FET - 075
-----------	-----------

G 7 - 9	SP - 075
---------	----------

G 4 - 6	IP - 075
---------	----------

Toy pistol with Pellets



G 10 - 12	FET - 076
-----------	-----------

G 7 - 9	
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G 4 - 6	
---------	--

Slinky spring



G 10 - 12	FET - 077
-----------	-----------

G 7 - 9	
---------	--

G 4 - 6	
---------	--

Lense Set



Biconvex Lens - Acrylic
Biconcave Lens - Acrylic

G 10 - 12	FET - 078
-----------	-----------

G 7 - 9	
---------	--

G 4 - 6	
---------	--

Optics kit



G 10 - 12	FET - 079
-----------	-----------

G 7 - 9	
---------	--

G 4 - 6	I
---------	---

Newton Colour Disc



G 10 - 12	FET - 080
-----------	-----------

G 7 - 9	
---------	--

G 4 - 6	
---------	--

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Waves, Sound and Light

Ripple tank



G 10 - 12

FET - 081

G 7 - 9

G 4 - 6

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Electricity and magnetism

Batteries



G 10 - 12	FET - 083
G 7 - 9	SP - 083
G 4 - 6	IP - 083

Switches



G 10 - 12	FET - 084
G 7 - 9	SP - 084
G 4 - 6	IP - 084

Toggle switch



G 10 - 12	FET - 085
G 7 - 9	SP - 085
G 4 - 6	IP - 085

Lamp



G 10 - 12	FET - 102
G 7 - 9	SP - 102
G 4 - 6	IP - 102

Straight filament bulb



G 10 - 12	FET - 086
G 7 - 9	SP - 086
G 4 - 6	IP - 086

Light bulb



G 10 - 12	FET - 087
G 7 - 9	SP - 087
G 4 - 6	IP - 087

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Electricity and magnetism

Horseshoe magnet



G 10 - 12 FET - 090

G 7 - 9 SP - 090

G 4 - 6 IP - 090

Bar-type magnet



G 10 - 12 FET - 091

G 7 - 9 SP - 091

G 4 - 6 IP - 091

Magnetic needle



G 10 - 12 FET - 093

G 7 - 9 SP - 093

G 4 - 6 IP - 093

Small compass



G 10 - 12 FET - 082

G 7 - 9 SP - 082

G 4 - 6 IP - 082

Brass rod



G 10 - 12 FET - 089

G 7 - 9 SP - 089

G 4 - 6 IP - 089

Magnifying glass



G 10 - 12 FET - 092

G 7 - 9 SP - 092

G 4 - 6 IP - 092

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Electricity and magnetism

Hand Operated Dynamo



G 10 - 12 FET - 094

G 7 - 9

G 4 - 6

Hand Operated Generator



G 10 - 12 FET - 095

G 7 - 9

G 4 - 6

Circuit board kit



G 10 - 12 FET - 096

G 7 - 9

G 4 - 6

Motor

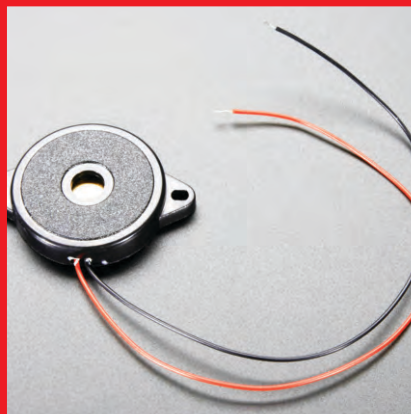


G 10 - 12 FET - 097

G 7 - 9 SP - 097

G 4 - 6

Buzzer



G 10 - 12 FET - 098

G 7 - 9 SP - 098

G 4 - 6

LED



G 10 - 12 FET - 099

G 7 - 9

G 4 - 6

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Electricity and magnetism

Electric flex wire



G 10 - 12	FET - 100
G 7 - 9	SP - 100
G 4 - 6	IP - 100

Nichrome resistance wire



G 10 - 12	FET - 101
G 7 - 9	SP - 101
G 4 - 6	IP - 101

Crocodile clip



G 10 - 12	FET - 105
G 7 - 9	SP - 105
G 4 - 6	IP - 105

Lamp holder



G 10 - 12	FET - 103
G 7 - 9	SP - 103
G 4 - 6	IP - 103

Banana plug & leads



G 10 - 12	FET - 104
G 7 - 9	SP - 104
G 4 - 6	IP - 104

Circuit Board



G 10 - 12	FET - 114
G 7 - 9	
G 4 - 6	

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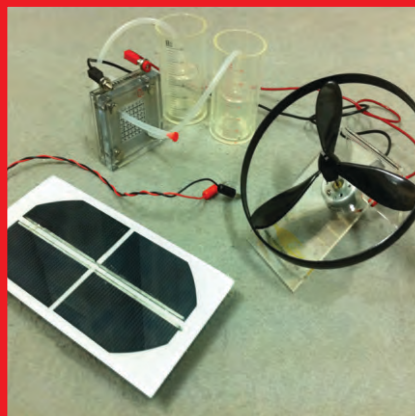
Electricity and magnetism

3 Pin plug



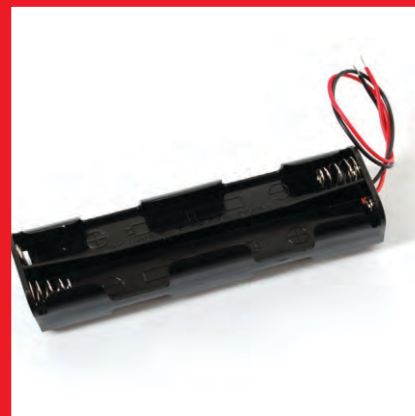
G 10 - 12	FET - 106
G 7 - 9	SP - 106
G 4 - 6	IP - 106

Solar energy kit



G 10 - 12	FET - 107
G 7 - 9	SP - 107
G 4 - 6	

Battery holder



G 10 - 12	FET - 108
G 7 - 9	SP - 108
G 4 - 6	IP - 108

Plain lead wire



G 10 - 12	FET - 109
G 7 - 9	SP - 109
G 4 - 6	IP - 109

Plastic rods



G 10 - 12	
G 7 - 9	
G 4 - 6	IP - 110

Aluminium strips



G 10 - 12	FET - 111
G 7 - 9	SP - 111
G 4 - 6	IP - 111

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Electricity and magnetism

Electrodes



G 10 - 12 FET - 112

G 7 - 9

G 4 - 6

Aluminium electrode



G 10 - 12 FET - 113

G 7 - 9

G 4 - 6

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Mechanics

Inclined plane



G 10 - 12 FET - 115

G 7 - 9

G 4 - 6

Inclined plane + Trolley



G 10 - 12 FET - 116

G 7 - 9

G 4 - 6

Force board



G 10 - 12 FET - 117

G 7 - 9

G 4 - 6

Force board apparatus



G 10 - 12 FET - 118

G 7 - 9

G 4 - 6

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Mechanics

Dynamic kit Mini (ii) Trolley



G 10 - 12	FET - 119
G 7 - 9	
G 4 - 6	

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Astronomy

Earth globe inflatable



G 10 - 12	
G 7 - 9	SP - 120
G 4 - 6	IP - 120

Compass



G 10 - 12	FET - 121
G 7 - 9	SP - 121
G 4 - 6	IP - 121

Moon & earth model



G 10 - 12	FET - 122
G 7 - 9	SP - 122
G 4 - 6	IP - 122

Orbiter



G 10 - 12	
G 7 - 9	SP - 123
G 4 - 6	IP - 123

Flashlight



G 10 - 12	FET - 124
G 7 - 9	SP - 124
G 4 - 6	IP - 124

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Astronomy

Rock & Mineral Set



G 10 - 12

G 7 - 9

SP - 126

G 4 - 6

IP - 126

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Chemicals

Acetic acid	Methanol
Acetic Acidalcium Chloride	Nitric Acid
Ammonium Hydroxide	Oxalic Acid
Ammonium Nitrate	Potassium Bromine
Barium Chloride	Potassium Chloride
Blue Copper Sulphate	Potassium Dichromate
Bromine Water	Potassium Iodide
Calcium Carbonate Granules	Potassium Nitrate
Calcium Carbonate Powder	Potassium Permanganate
Calcium Chloride	Potassium Sulphate
Chlorine Water	Silver Nitrate Solution
Chloroform	Sodium Bicarbonate
Citric Acid	Sodium Carbonate
Copper(ii) Sulphate	Sodium Chloride
Copper Chloride	Sodium Hydroxide
Copper Oxide	Sodium Sulphate
Cyclo-Hexene	Sodium Thiosulphate
Ethanol	Sulphuric Acid
Glycerine	Sulphur Powder
Glycerine Sulphuric acid	Xylene
Hydrochloric Acid	Zinc Sulphate
Hydrogen Peroxide	
Iron Powder	
Lead Nitrate	
Lime Water	
Lithium	
Magnesium Sulphate	
Manganese Dioxide	
Manganese Oxide	

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Chemicals

Eno



Niyaprakash

G 10 - 12

G 7 - 9 SP - 127

G 4 - 6 IP - 127

Food colouring



wiseGEEK

G 10 - 12 FET - 128

G 7 - 9 SP - 128

G 4 - 6 IP - 128

Steel wool



G 10 - 12 FET - 129

G 7 - 9 SP - 129

G 4 - 6 IP - 129

Magnesium ribbon



G 10 - 12 FET - 130

G 7 - 9 SP - 130

G 4 - 6 IP - 130

Black ink



G 10 - 12 FET - 158

G 7 - 9 SP - 158

G 4 - 6 IP - 158

Endorsing ink pad



G 10 - 12 FET - 132

G 7 - 9 SP - 132

G 4 - 6 IP - 132

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Suppliers Of Educational Kits

Chemicals

Vinegar



G 10 - 12 FET - 133

G 7 - 9 SP - 133

G 4 - 6 IP - 133

Nail polish remover



G 10 - 12 FET - 134

G 7 - 9 SP - 134

G 4 - 6 IP - 134

Test strips



G 10 - 12 FET - 135

G 7 - 9 SP - 135

G 4 - 6 IP - 135

Atom model with bonds



G 10 - 12 FET - 136

G 7 - 9

G 4 - 6

Boyle's law apparatus



G 10 - 12 FET - 137

G 7 - 9

G 4 - 6

Bromothymol blue



G 10 - 12 FET - 138

G 7 - 9 SP - 138

G 4 - 6 IP - 138

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Chemicals

Universal indicator



G 10 - 12	FET - 139
G 7 - 9	SP - 139
G 4 - 6	IP - 139

Shampoo



G 10 - 12	FET - 140
G 7 - 9	SP - 140
G 4 - 6	IP - 140

Bean seeds



G 10 - 12	
G 7 - 9	SP - 141
G 4 - 6	IP - 141

Flower seeds



G 10 - 12	FET - 142
G 7 - 9	SP - 142
G 4 - 6	IP - 142

Tea bags



G 10 - 12	
G 7 - 9	SP - 143
G 4 - 6	IP - 143

Sugar



G 10 - 12	FET - 144
G 7 - 9	SP - 144
G 4 - 6	IP - 144

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Suppliers Of Educational Kits

Chemicals

Salt (fine)



G 10 - 12

G 7 - 9 SP - 145

G 4 - 6 IP - 145

Oil



G 10 - 12 FET - 146

G 7 - 9 SP - 146

G 4 - 6 IP - 146

Tartaric acid

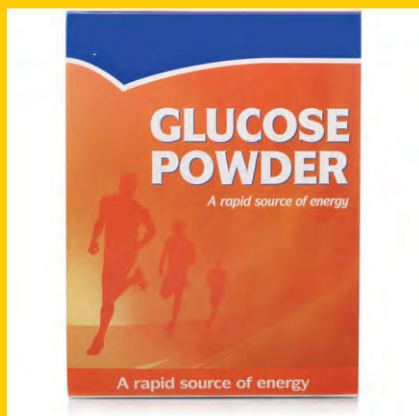


G 10 - 12

G 7 - 9 SP - 147

G 4 - 6 IP - 147

Glucose powder



G 10 - 12

G 7 - 9 SP - 148

G 4 - 6 IP - 148

Lemon juice



G 10 - 12

G 7 - 9 SP - 149

G 4 - 6 IP - 149

Water purification tablet



G 10 - 12

G 7 - 9 SP - 150

G 4 - 6 IP - 150

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Suppliers Of Educational Kits

Chemicals

Cal-C-Vita tablets



G 10 - 12 FET - 151

G 7 - 9 SP - 151

G 4 - 6 IP - 151

Litmus paper red



G 10 - 12 FET - 152

G 7 - 9 SP - 152

G 4 - 6 IP - 152

Litmus paper blue



G 10 - 12

G 7 - 9 SP - 153

G 4 - 6 IP - 153

Maize flour



G 10 - 12

G 7 - 9 SP - 154

G 4 - 6 IP - 154

Iodine solution



G 10 - 12 FET - 155

G 7 - 9 SP - 155

G 4 - 6 IP - 155

Cake flour



G 10 - 12

G 7 - 9 SP - 156

G 4 - 6 IP - 156

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Suppliers Of Educational Kits

Chemicals

Custard powder



G 10 - 12	
G 7 - 9	SP - 157
G 4 - 6	IP - 157

Vaseline



G 10 - 12	FET - 131
G 7 - 9	SP - 131
G 4 - 6	IP - 131

Samp



G 10 - 12	
G 7 - 9	SP - 159
G 4 - 6	IP - 159

Liquid soap



G 10 - 12	
G 7 - 9	SP - 160
G 4 - 6	IP - 160

Bicarbonate of soda



G 10 - 12	FET - 161
G 7 - 9	SP - 161
G 4 - 6	IP - 161

Curry powder



G 10 - 12	
G 7 - 9	SP - 162
G 4 - 6	IP - 162

Pfunzo Ye Sive

Suppliers Of Educational Kits

Chemicals

Methylated spirit



G 10 - 12	FET - 163
-----------	-----------

G 7 - 9	SP - 163
---------	----------

G 4 - 6	IP - 163
---------	----------

Salt (coarse)



G 10 - 12	
-----------	--

G 7 - 9	SP - 164
---------	----------

G 4 - 6	IP - 164
---------	----------

Phenolphthalein indicator



G 10 - 12	FET - 165
-----------	-----------

G 7 - 9	SP - 165
---------	----------

G 4 - 6	IP - 165
---------	----------

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Suppliers Of Educational Kits

Miscellaneous

Sello tape



G 10 - 12 FET - 232

G 7 - 9 SP - 232

G 4 - 6 IP - 232

Tubing



G 10 - 12 FET - 233

G 7 - 9 SP - 233

G 4 - 6 IP - 233

Polystyrene balls



G 10 - 12 FET - 234

G 7 - 9 SP - 234

G 4 - 6 IP - 234

Iron nails



G 10 - 12 FET - 235

G 7 - 9 SP - 235

G 4 - 6 IP - 235

Paper clips



G 10 - 12 FET - 236

G 7 - 9 SP - 236

G 4 - 6 IP - 236

Plasticene clay



G 10 - 12

G 7 - 9 SP - 237

G 4 - 6 IP - 237

Pfunzo Ye Sive



Suppliers Of Educational Kits

Miscellaneous

String



G 10 - 12 FET - 238

G 7 - 9 SP - 238

G 4 - 6 IP - 238

Dissecting scissors



G 10 - 12 FET - 125

G 7 - 9 SP - 125

G 4 - 6 IP - 125

Dissecting set



G 10 - 12 FET - 240

G 7 - 9

G 4 - 6

Trimming knife



G 10 - 12 FET - 241

G 7 - 9 SP - 241

G 4 - 6 IP - 241

Filter paper



G 10 - 12 FET - 242

G 7 - 9 SP - 242

G 4 - 6 IP - 242

Bamboo sticks



G 10 - 12 FET - 243

G 7 - 9 SP - 243

G 4 - 6 IP - 243

Pfunzo Ye Sive



Suppliers Of Educational Kits

Miscellaneous

Candles



G 10 - 12	FET - 244
-----------	-----------

G 7 - 9	SP - 244
---------	----------

G 4 - 6	IP - 244
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Cotton wool

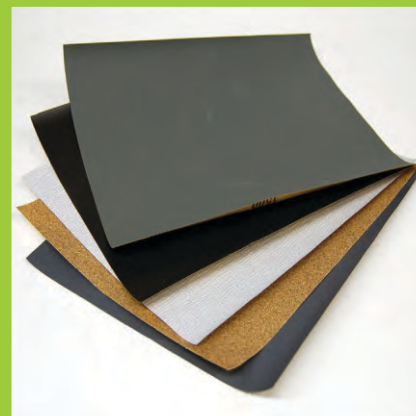


G 10 - 12	FET - 245
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G 7 - 9	SP - 245
---------	----------

G 4 - 6	IP - 245
---------	----------

Sand paper



G 10 - 12	FET - 246
-----------	-----------

G 7 - 9	SP - 246
---------	----------

G 4 - 6	IP - 246
---------	----------

Tooth picks



G 10 - 12	FET - 247
-----------	-----------

G 7 - 9	SP - 247
---------	----------

G 4 - 6	IP - 247
---------	----------

Marbles



G 10 - 12	
-----------	--

G 7 - 9	SP - 248
---------	----------

G 4 - 6	IP - 248
---------	----------

Scissors



G 10 - 12	FET - 249
-----------	-----------

G 7 - 9	SP - 249
---------	----------

G 4 - 6	IP - 249
---------	----------

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Suppliers Of Educational Kits

Miscellaneous

Balloons



G 10 - 12	FET - 250
G 7 - 9	SP - 250
G 4 - 6	IP - 250

Elastic bands



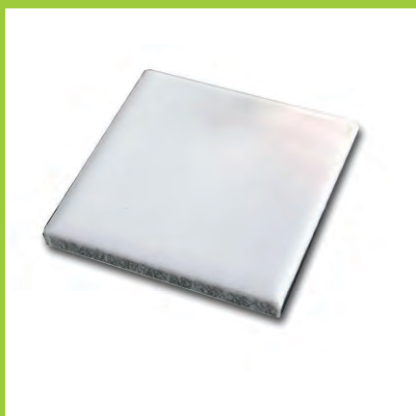
G 10 - 12	FET - 251
G 7 - 9	SP - 251
G 4 - 6	IP - 251

Insulation tape



G 10 - 12	FET - 252
G 7 - 9	SP - 252
G 4 - 6	IP - 252

White tile



G 10 - 12	FET - 253
G 7 - 9	SP - 253
G 4 - 6	IP - 253

Masking tape



G 10 - 12	FET - 239
G 7 - 9	SP - 239
G 4 - 6	IP - 239

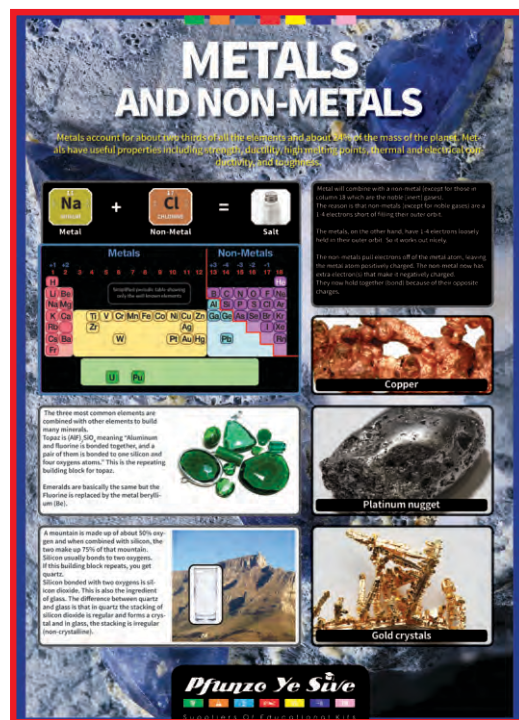
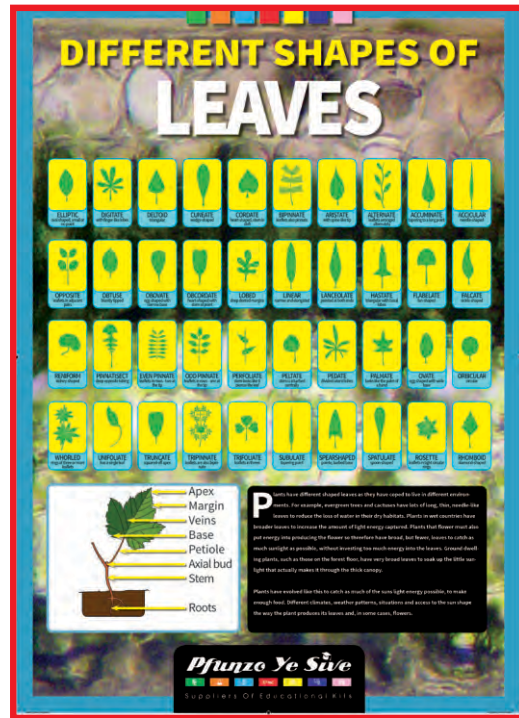
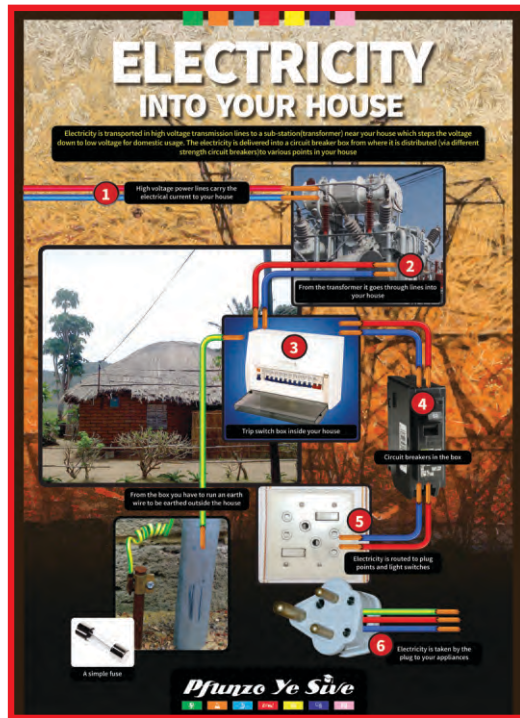
Wood strips
Knives and forks
Paper cups
Aluminium foil
White wood glue
Matches
Silicon tubing

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Suppliers Of Educational Kits

Charts



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Charts



COLOUR INDICATORS AND pH-SCALE TABLES

INDICATOR	ACID / BASE INDICATORS	LOWER COLOUR (in acid)	pH RANGE	UPPER COLOUR (in base)
methyl violet		yellow-green	0.0 - 2.5	violet
methyl orange		red	2.5 - 4.4	yellow
congo red		blue	3.0 - 5.5	red
bromocresol green		bromocresol green	4.5 - 5.5	blue
methyl red		red	4.8 - 6.0	red
bromophenol blue		yellow	3.0 - 4.6	blue
bromothymol blue		yellow	6.0 - 7.6	blue
phenol red		yellow	6.4 - 8.2	red
cresol red		yellow	7.1 - 8.8	violet
phenolphthalein		colorless	8.3 - 10.0	dark pink
alizarin yellow		yellow	9.0 - 11.5	dark orange

UNIVERSAL INDICATOR

Red litmus paper with a drop of base here: → Blue litmus paper with a drop of acid here: →

Red litmus paper turns blue in a base. Blue litmus paper turns red in an acid.

Increasing acidity

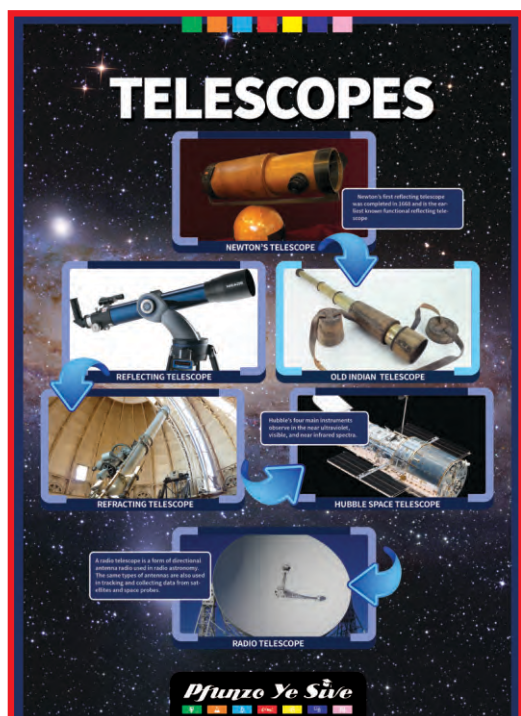
0: Battery acid
1: Lemon juice
2: Vinegar
3: Acid rain
4: Fruit (reproduction affected)
5: Normal range precipitation
6: Neutral range of stream water
7: Milk
8: Baking soda
9: Sea water
10: Milk of Magnesia
11: Ammonia
12: Lye

pH-scale

Most common indicators are:

- methyl orange
- methyl red
- bromocresol blue
- phenolphthalein
- universal indicator
- red litmus paper
- blue litmus paper
- phenol red and alizarin yellow

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Charts

LIGHT MEAT TUNA

INGREDIENTS: Tuna (Fish), water, salt

Nutrition Facts

Single serving size: 55g

	Per 100 g	Per single serving
Energy (kJ)	422	232
Protein (g)	22.1	12.1
Glycaemic Carbohydrate (g)	<1	<1
of which total sugar (g)	0	0
Total fat (g)	1.4	0.8
of which saturated fat (g)	0.5	0.3
Dietary fibre (g)	0.5	0.3
Total Sodium (mg)	26	52

Nutritional information of a typical can of Tuna as packed

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LOW FAT YOGHURT

INGREDIENTS: Cow's milk, Fruit pulp, sugar, water, stabilisers, flavouring, colourants, acidity regulator, Sugar, Stabilizers(gelatin), Reconstituted skim milk powder, Yoghurt culture, preservative (potassium sorbate).

Nutrition Facts

Single serving size: 200g

	Per 100 g	Per single serving
Energy (kJ)	368	736
Protein (g)	2.1	4.2
Glycaemic Carbohydrate (g)	15	30
of which total sugar (g)	12.2	24.4
Total fat (g)	2.1	4.2
of which saturated fat (g)	1.5	3.0
Dietary fibre (g)	<1.5	<1.0
Total Sodium (mg)	26	52
Calcium (mg)	71.3	142.6

Nutritional information of a typical low fat yoghurt as packed

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COLD DRINK

INGREDIENTS: Carbonated water, sugar, citric acid, stabilizers, preservatives (Sodium benzoate and potassium sorbate), flavouring

Nutrition Facts

Single serving size: 250g

	Per 100 g	Per single serving
Energy (kJ)	202	504
Protein (g)	0	0
Glycaemic Carbohydrate (g)	12	29
of which total sugar (g)	11.8	29.4
Total fat (g)	0	0
of which saturated fat (g)	0	0
Dietary fibre (g)	0.5	0.3
Total Sodium (mg)	0	0

Nutritional information of a typical soft drink as bottled

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WHITE RICE

INGREDIENTS: Long grain parboiled rice and vitamins..

Nutrition Facts

Single serving size: 100g

	Per 100 g	Per single serving
Energy (kJ)	1444	1444
Protein (g)	9.7	9%
Glycaemic Carbohydrate (g)	69.7	69.7
of which total sugar (g)	1.0	1.0
Total fat (g)	1.2	1.2
of which saturated fat (g)	0.7	0.7
monounsaturated fat (g)	0.29	0.29
Polyunsaturated fat (g)	0.14	0.14
Cholesterol	0	0
Dietary fibre (g)	0.8	0.8
Total Sodium (mg)	2.76	52
Vitamin A (mcg RE)	135	15%
Vitamin B1 (mg)	0.18	15%
Vitamin B3 (mg)	2.4	15%
Folic acid (mcg)	60	15%
Vitamin B12 (mcg)	0.36	15%

Nutritional information of a typical white rice as packed

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Charts

The Periodic Table of Elements

ATOMIC NUMBER
SYMBOL
ELECTRONEGATIVITY
ELEMENT NAME
TYPICAL USE

RELATIVE ATOMIC MASS

Legend:

- Halogens
- Alkali Earth Metals
- Transition Metals
- Other Metals
- Alkali Metals
- Metalloids
- Noble Gases
- Super Heavy Elements
- Rare Earth Elements (REEs)
- Lanthanides*
- Actinides

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Illustrated Periodic Table of Elements

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Manuals



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Manuals



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Manuals



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Manuals

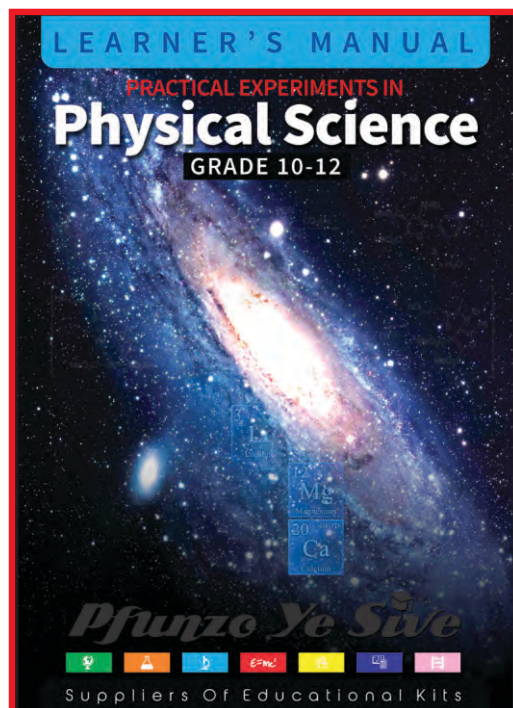


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Manuals

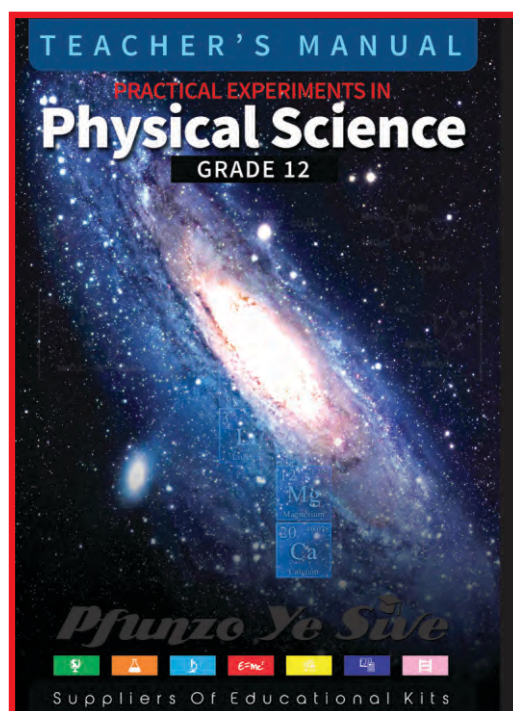
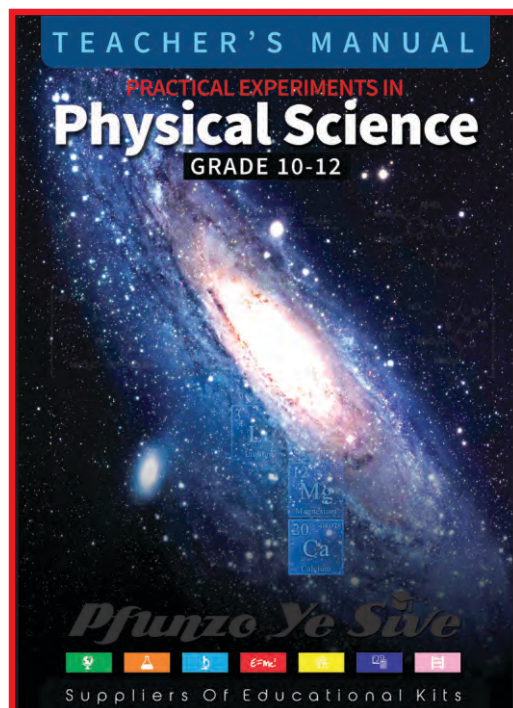


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Manuals



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Notes:

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