

EDUCATIONAL CHART CATALOGUE



Shuter & Shooter
PUBLISHERS (PTY) LTD

Shuters CAPS APPROVED CORE Catalogues

Grades
1 2 3

CAPS APPROVED CATALOGUE

TOP CLASS
PREMIER
IsiZulu
Sogobo
Masihambisane
IsiXhosa
Ngumdiliya
Setswana
SISWATI
SETFU
Sichumile
ISIXHOSA





Grades
4 5 6

CAPS APPROVED CATALOGUE

TOP CLASS
TOPKLAS
Setswana
Tota
Masihambisane
LULWIMI
Lwasekhaya
Ririmi ro Engetela
ro Sungula





Grade 7

CAPS APPROVED CATALOGUE

TOP CLASS
TOPKLAS
PREMIER
Setswana
Tota
Hi Nwa
Hi Kolwa
SISWATI
SETFU
Masihambisane
ISIZULU
SOQOBO
IsiXhosa
Ngumdiliya
IsiZulu
Sethu
Sichumile
ISIXHOSA
Idube
Sediba
sa thuto



Grades 8 & 9

CAPS APPROVED CATALOGUE

TOP CLASS
TOPKLAS
PREMIER
Setswana
Tota
Hi Nwa
Hi Kolwa
SISWATI
SETFU
Masihambisane
ISIZULU
SOQOBO
IsiXhosa
Ngumdiliya
IsiZulu
Sethu
Sichumile
ISIXHOSA
Idube
Sediba
sa thuto



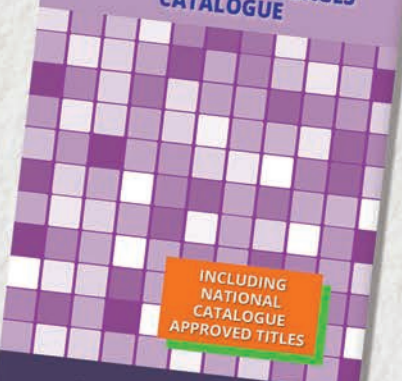
Grades
10 11 12

CAPS APPROVED CATALOGUE


TOP CLASS
TOPKLAS
PREMIER
Setswana
Tota
Masihambisane
Hi Nwa
Hi Kolwa
IsiZulu
Sethu
IsiXhosa
Ngumdiliya
ISIZULU
SOQOBO
Sichumile
SISWATI
SETFU
Sediba
sa thuto



FET LITERATURE & INDIGENOUS LANGUAGES CATALOGUE



INCLUDING NATIONAL CATALOGUE APPROVED TITLES



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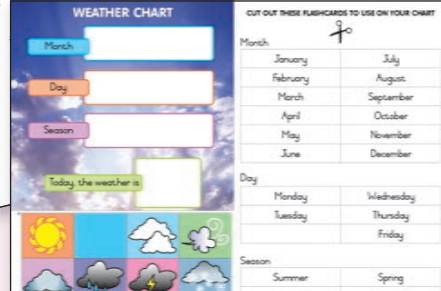
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GRADE R CHARTS IN 7 LANGUAGES

Literacy, Numeracy and Life Skills. A2 size (42 cm x 59 cm), available in **English, Afrikaans, isiXhosa, Sepedi, Xitsonga, Tshivenda, Siswati, and Setswana.**

R43.58

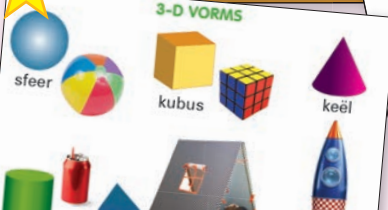


These charts are available in the following languages					
English	Afrikaans	Isizulu	Setswana	Siswati	IsiNdebele
LOOKING AFTER MY BODY					
9780796075048	9780796077028	N/A	9780796078049	9781928271048	9781928271246
R43.58	R43.58		R43.58	R43.58	R43.58
THIS IS HOW I FEEL					
9780796075055	9780796077035	N/A	9780796078056	9781928271055	9781928271253
R43.58	R43.58		R43.58	R43.58	R43.58
DAYS OF THE WEEK					
9780796075109	9780796077080	N/A	9780796078100	9781928271109	9781928271307
R43.58	R43.58		R43.58	R43.58	R43.58
MY FAMILY					
9780796075062	9780796077042	9780796076373	9780796078063	9781928271062	9781928271260
R43.58	R43.58	R43.58	R43.58	R43.58	R43.58
MY BODY					
9780796075031	9780796077011	9780796076366	9780796078032	9781928271031	9781928271239
R43.58	R43.58	R43.58	R43.58	R43.58	R43.58
JOBS PEOPLE DO					
9780796075123	9780796077103	9780796076380	9780796078124	9781928271123	9781928271321
R43.58	R43.58	R43.58	R43.58	R43.58	R43.58
WEATHER CHART					
9780796075093	9780796077073	9780796076434	9780796078094	9781928271093	9781928271291
R43.58	R43.58	R43.58	R43.58	R43.58	R43.58



STAR CHART
 (ANY language –
 Teacher's written titles)
 9781485835905
R43.58

These charts are available in the following languages					
English	Afrikaans	Isizulu	Setswana	Siswati	IsiNdebele
MONTHS OF THE YEAR					
9780796075116	9780796077097	9780796076441	9780796078117	9781928271116	9781928271314
R43.58	R43.58	R43.58	R43.58	R43.58	R43.58
SEASONS					
9780796075079	9780796077059	N/A	9780796078070	9781928271079	9781928271277
R43.58	R43.58		R43.58	R43.58	R43.58
COLOURS					
9780796075017	9780796076991	9780796076342	9780796078018	9781928271017	9781928271215
R43.58	R43.58	R43.58	R43.58	R43.58	R43.58
THE WATER CYCLE					
9780796075192	9780796077172	N/A	9780796078193	9781928271192	9781928271390
R43.58	R43.58		R43.58	R43.58	R43.58
VEGETABLES					
9780796075185	9780796077165	9780796076427	9780796078186	9781928271185	9781928271383
R43.58	R43.58	R43.58	R43.58	R43.58	R43.58
FRUIT					
9780796075178	9780796077158	9780796076410	9780796078179	9781928271178	9781928271376
R43.58	R43.58	R43.58	R43.58	R43.58	R43.58
BIRTHDAY CHART					
9780796075086	9780796077066	9780796076472	9780796078087	9781928271086	9781928271284
R43.58	R43.58	R43.58	R43.58	R43.58	R43.58

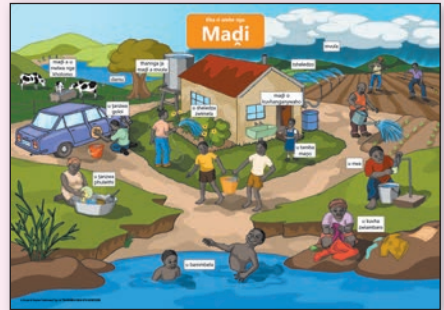
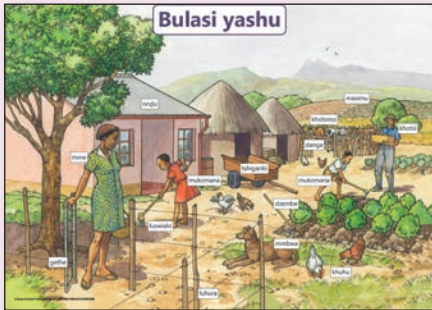


These charts are available in the following languages

English	Afrikaans	Isizulu	Setswana	Siswati	IsiNdebele
WILD ANIMALS					
9780796075130	9780796077110	9780796076502	9780796078131	9781928271130	9781928271338
R43.58	R43.58	R43.58	R43.58	R43.58	R43.58
FARM ANIMALS					
9780796075147	9780796077127	9780796076496	9780796078148	9781928271147	9781928271345
R43.58	R43.58	R43.58	R43.58	R43.58	R43.58
REPTILES					
9780796075161	9780796077141	N/A	9780796078162	9781928271161	9781928271369
R43.58	R43.58		R43.58	R43.58	R43.58
DINOSAURS					
9780796075154	9780796077134	N/A	9780796078155	9781928271154	9781928271352
R43.58	R43.58		R43.58	R43.58	R43.58
POSISIE (Position)					
N/A	9781920615581	N/A	N/A	N/A	N/A
	R43.58				
3-D VORMS (3-D Forms)					
N/A	9781920615598	N/A	N/A	N/A	N/A
	R43.58				
SHAPES					
9780796075024	9780796077004	9780796076359	9780796078025	9781928271024	9781928271222
R43.58	R43.58	R43.58	R43.58	R43.58	R43.58
NUMBERS 0-10					
9780796075000	9780796076984	9780796076328	9780796078001	9781928271000	9781928271208
R43.58	R43.58	R43.58	R43.58	R43.58	R43.58

GRADE R CHARTS IN 7 LANGUAGES

Literacy, Numeracy and Life Skills. A2 size (42 cm x 59 cm), available in **English, Afrikaans, isiXhosa, Sepedi, Xitsonga, Tshivenda, Siswati, and Setswana. R43.58**



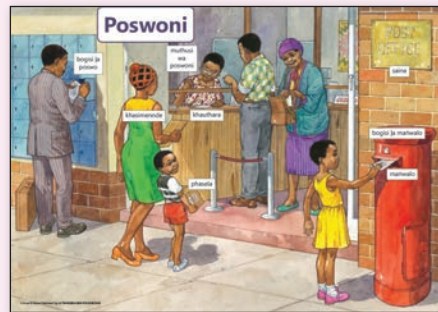
These charts are available in the following languages		
Xitsonga	Tshivenda	Sepedi
A DAY AT THE BEACH		
9781928271550	9781928272120	9781928271796
R43.58	R43.58	R43.58
OUT FOR A WALK		
9781928271635	9781928272410	9781928272076
R43.58	R43.58	R43.58
OUR FARM		
9781928271628	9781928272205	9781928271864
R43.58	R43.58	R43.58
A DAY AT THE FARM		
9781928271567	9781928272137	9781928271802
R43.58	R43.58	R43.58
LET'S TALK ABOUT SHOPPING		
9781928271598	9781928272175	9781928271833
R43.58	R43.58	R43.58
LET'S TALK ABOUT WATER		
9781928271659	9781928272229	9781928271888
R43.58	R43.58	R43.58



GRADE R CHARTS IN 3 LANGUAGES

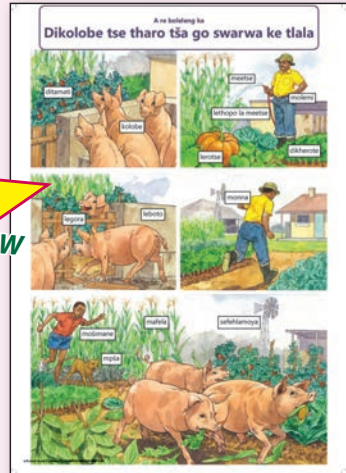
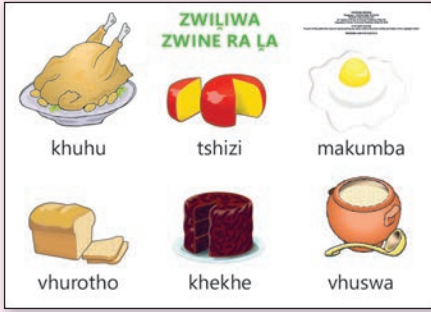
Literacy, Numeracy and Life Skills. A2 size (42 cm x 59 cm), available in Sepedi, Xitsonga, and Tshivenda.

R43.58



These charts are available in the following languages		
Xitsonga	Tshivenda	Sepedi
THE STATION		
9781928271697	9781928272267	9781928271925
R43.58	R43.58	R43.58
WHAT HAPPENS IN A HOSPITAL		
9781928271666	9781928272236	9781928271895
R43.58	R43.58	R43.58
THE SCHOOL ENVIRONMENT		
9781928271680	9781928272250	9781928271918
R43.58	R43.58	R43.58
LET'S TALK ABOUT OUR KITCHEN		
9781928271581	9781928272151	9781928271826
R43.58	R43.58	R43.58
LET'S TALK ABOUT SPORT - SOCCER		
9781928271604	9781928272182	9781928271840
R43.58	R43.58	R43.58





These charts are available in the following languages		
Xitsonga	Tshivenda	Sepedi
THE FOOD WE EAT		
9781928271642	9781928272212	9781928271871
R43.58	R43.58	R43.58
WASHING HANDS		
9781928271727	9781928272397	9781928272052
R43.58	R43.58	R43.58
GETTING DRESSED		
9781928271574	9781928272144	9781928271819
R43.58	R43.58	R43.58
REPUBLIC OF SOUTH AFRICA NATIONAL FLAG		
9781928271710	9781928272403	9781928272069
R43.58	R43.58	R43.58
LET'S TALK ABOUT THREE HUNGRY PIGS		
9781928271611	9781928272199	9781928271857
R43.58	R43.58	R43.58



ISIZULU

GRADE R ISIZULU CHARTS

Life Skills. Each A2 size chart (42 cm x 59 cm).

R43.58

ISIZULU	
IZILWANE ZASEMANZINI	9780796076519
IZINZWA	9780796076397
IMIKHIQIZO YOBISI	9780796076458
IMIKHIQIZO YEWULI	9780796076465
IMIGUBHO	9780796076489

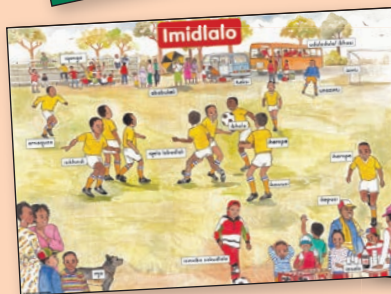
KEEP AN EYE OUT FOR NEW POSTERS AND NEW LANGUAGES.

GRADE R ISIXHOSA CHARTS

Life Skills. Each A2 size chart (42 cm x 59 cm).

R43.58

ISIXHOSA

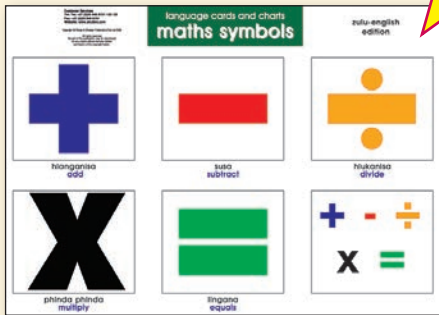
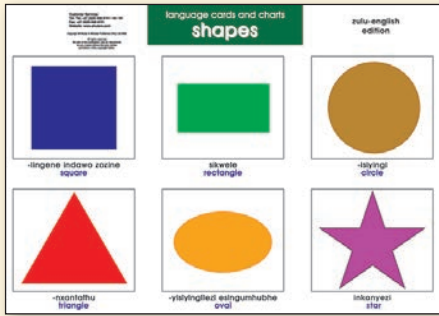


ISIXHOSA
AMALUNGELO ABANTWANA
9780796075765
AMAKHAYA ETHU
9780796075710
IZITYALO NEMITHI
9780796075734
IZITHUTHI
9780796075819
UMHLA WOKUZALWA KAYONELA
9780796075758
IMIDLALO
9780796075833
IIMILO NEMIBALA
9780796075680
ABANTU BOMZANTSI AFRIKA
9780796075840

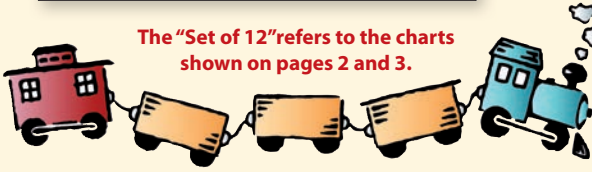
JUNIOR MULTILINGUAL CHARTS

Literacy, Numeracy, Life Orientation and General Science. Each A2 size chart (42 cm x 59 cm) uses an image with its name shown in both **English and one other language** (Afrikaans, isiZulu, isiXhosa, Sepedi, Setswana or Sesotho).

R43.58 or R523.00 for a set of 12



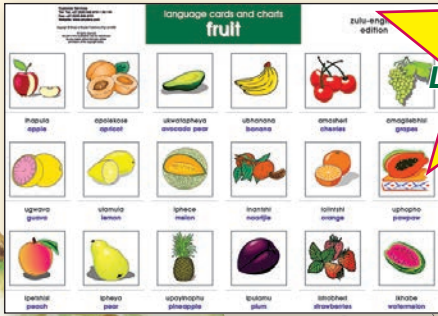
The "Set of 12" refers to the charts shown on pages 2 and 3.



These MULTILINGUAL charts are available in English AND the following languages					
Afrikaans	isiZulu	isiXhosa	Sepedi	Setswana	Sesotho
SHAPES					
9781920336028	9781920004873	9781920336264	9781920336387	9781920336141	9781920004750
NUMBERS 1-5					
9781920336004	9781920004859	9781920336240	9781920336363	9781920336128	9781920004736
NUMBERS 6-10					
9781920336011	9781920004866	9781920336257	9781920336370	9781920336134	9781920004743
MATHS SYMBOLS					
9781920336035	9781920004880	9781920336271	9781920336394	9781920336158	9781920004767
TRANSPORT					
9781920336080	9781920004934	9781920336325	9781920336448	9781920336202	9781920004811
FOOD WE EAT					
9781920336097	9781920004941	9781920336332	9781920336455	9781920336219	9781920004828

JUNIOR MULTILANGUAGE CHARTS – R43.58 or R523.00 for a set of 12

The "Set of 12" refers to the charts shown on pages 2 and 3.



These MULTILANGUAGE charts are available in English AND the following languages					
Afrikaans	isiZulu	isiXhosa	Sepedi	Setswana	Sesotho
WILD ANIMALS					
9781920336073	9781920004927	9781920336318	9781920336431	9781920336196	9781920004804
DOMESTIC ANIMALS					
9781920336066	9781920004910	9781920336301	9781920336424	9781920336189	9781920004798
FRUIT					
9781920336103	9781920004958	9781920336349	9781920336462	9781920336226	9781920004835
VEGETABLES					
9781920336110	9781920004965	9781920336356	9781920336479	9781920336233	9781920004842
IN THE HOME					
9781920336042	9781920004897	9781920336288	9781920336400	9781920336165	9781920004774
IN THE GARDEN					
9781920336059	9781920004903	9781920336295	9781920336417	9781920336172	9781920004781

FOUNDATION PHASE – NUMERACY

MATHEMATICS CHARTS SELECTION

Maths has never been more fun! These clear, appropriately illustrated charts offer the learner wonderful reinforcement and inspiration in full colour. Numbers, Times Tables and Time charts are great for all ages.

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GETALLE 1-10 (A2)	9781920615574	
NUMBERS 1-20 (A2)	9781920586003	
GETALLE 1-20 (A2)	9781920615543	
NUMBERS 1-100 (A2)	9781920586973	

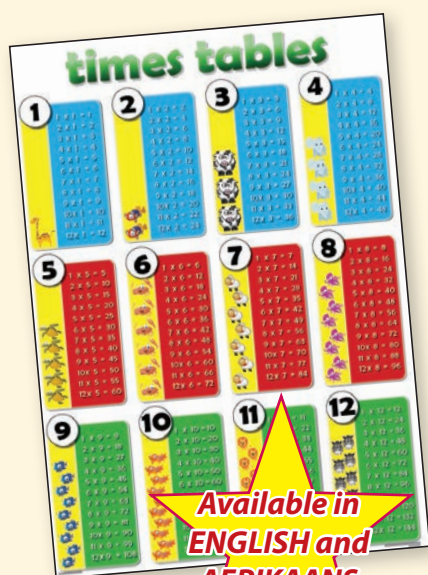
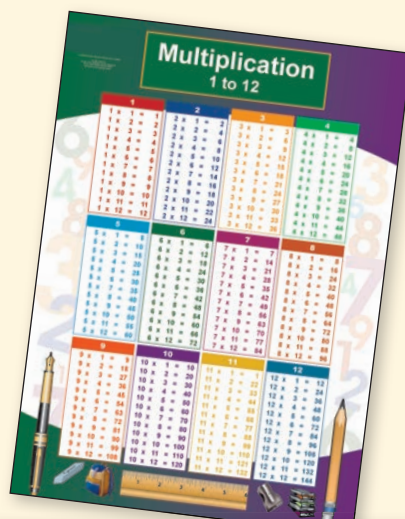


**Available in
ENGLISH and
AFRIKAANS**

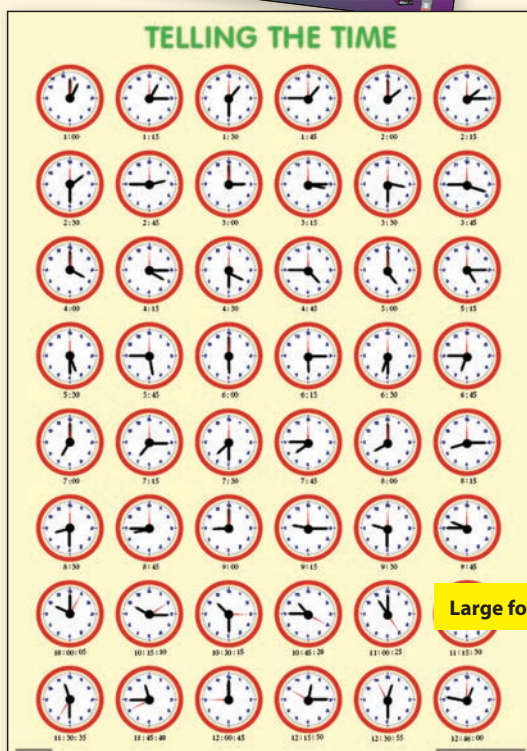


**Available in
ENGLISH and
AFRIKAANS**

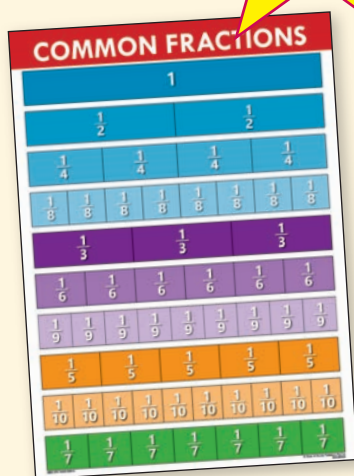




Available in
ENGLISH and
AFRIKAANS



Large format

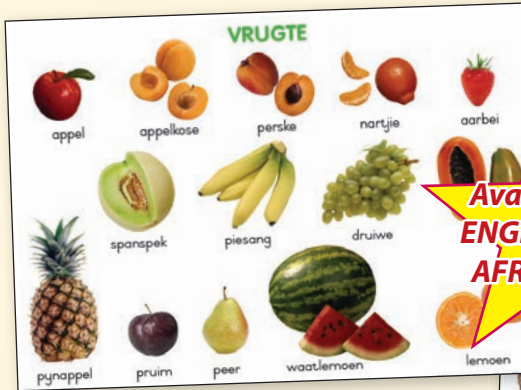


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GEWONE BREUKE (A2)	9781920586409	R43.58
TELLING THE TIME (A1 size)	9781920336943	R55.65

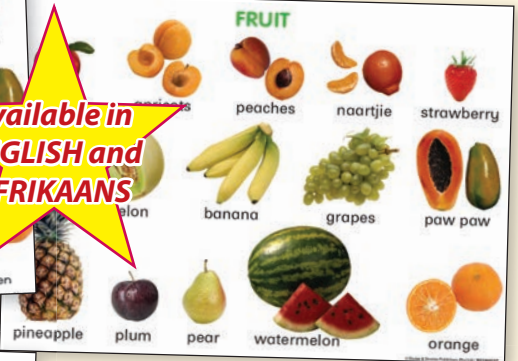


DOMESTIC ANIMALS	9781920615031	R43.58
ANIMAL SHELTERS	9781920586188	R43.58
DIERESKUILINGS	9781920586195	R43.58
FRUIT	9781920615024	R43.58
VRUGTE	9781920615611	R43.58
VEGETABLES	9781920615017	R43.58
GROENTE	9781920615604	R43.58

Photographic posters are a wonderful way for learners to reinforce their growing knowledge about the world they live in. All posters are A2 size (42 cm x 59 cm).



Available in ENGLISH and AFRIKAANS



Available in ENGLISH and AFRIKAANS



Available in ENGLISH and AFRIKAANS



SAFETY SERIES

Improve learner's understanding of safe behaviour with these illustrated charts. A2 size (42 cm x 59 cm)

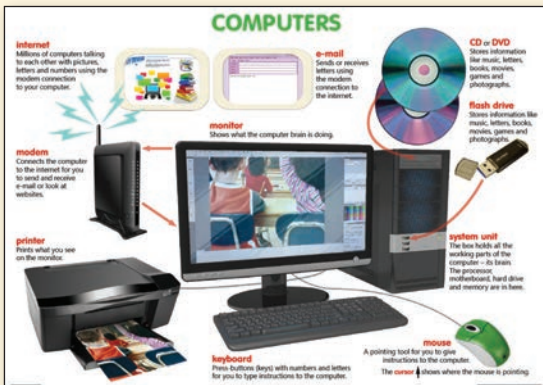
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SAFETY IN THE HOME	9781919954868	R43.58



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A vital first step in personal responsibility – save lives, improve health. A2 size (42 cm x 59 cm)

WASHING HANDS	9781920615000	R43.58
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COMPUTERS

Simply expressed, the chart explains how our computers work, improving the learners' understanding of the technological tools used in the world around them. Full colour, A2 size (42 cm x 59 cm).

COMPUTERS
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R43.58

FOUNDATION PHASE – LITERACY • LIFE SKILLS

FOUNDATION PHASE GENERAL SELECTION

In bright colours and clear text to suit Foundation Phase learners, these A2 size (42 cm x 59 cm) charts make the classroom a fun, inspiring place to be. Economy range is not laminated.

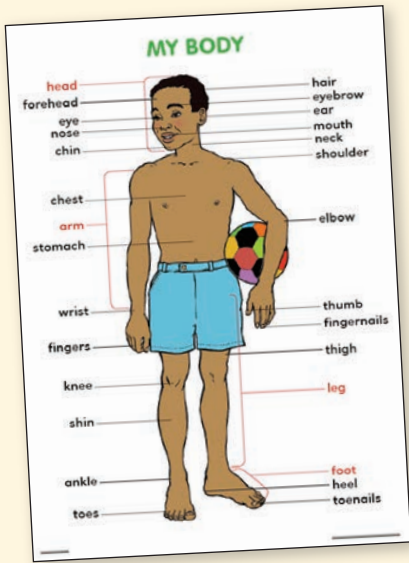


THE ALPHABET	9781920336554	R43.58
ALPHABET FUN	9781920586416	R43.58
OUR BIRTHDAYS CLASSROOM CHART	9781920615123	R43.58
CLASSROOM BIRTHDAY CHART	9781919954974	R43.58
COLOURS	9781920615529	R43.58
KLEURE	9781920615567	R43.58
COLOURS OF THE RAINBOW	9781919954875	R43.58
SHAPES and COLOURS	9781920586980	R43.58

**Available in
ENGLISH and
AFRIKAANS**



Starter Version



MY BODY (A2)	9781920336615	R43.58
MY BODY (Starter Version)	9781920615352	R43.58
MY FAMILY (A2)	9781920336608	R43.58

MUSICAL INSTRUMENTS	9781920615536	R43.58
MUSIKALE INSTRUMENTE	9781920615642	R43.58
SEASONS	9781920336585	R43.58
SEISOENE	9781920615628	R43.58



**Available in
ENGLISH and
AFRIKAANS**

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AFRIKAANS**



FOUNDATION PHASE – LIFE SKILLS

CIVIC RIGHTS AND RESPONSIBILITIES

Examine Children’s Rights and link them with Responsibilities in this easy access poster. Learn about people who care for us, from Car Guards to Emergency Services.
A2 size (42 cm x 59 cm)



PEOPLE WHO CARE FOR US
9781920336622 R43.58
RIGHTS AND RESPONSIBILITIES
9781920336592 R43.58



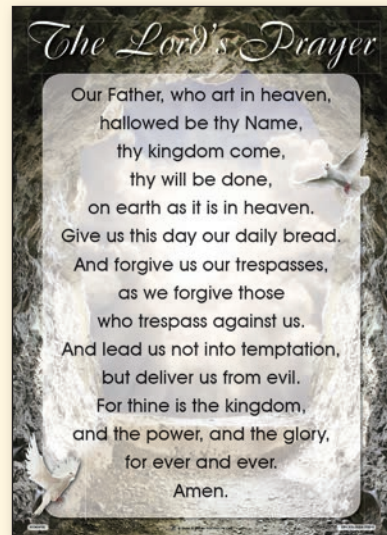
REINFORCING EMOTIONAL INTELLIGENCE

A memory guide for The Lord’s Prayer, in A2 size.

Emotional Intelligence (EQ) is the focus of this easy to use poster. Learning how to cope with Emotions is vital to the personal growth of a child, to establish a sound foundation of selfawareness, leading to a more balanced maturing.
A2 size (42 cm x 59 cm)



EMOSIES
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PRIDE IN OUR NATION

Take careful note of our national flag. Learn to sing our National Anthem and see some of the beautiful places we think of when we sing those stirring words.
 Read the facts about our Currency and learn how to make sure a note is the 'real thing'!
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SA NATIONAL ANTHEM	9781919954493	R43.58
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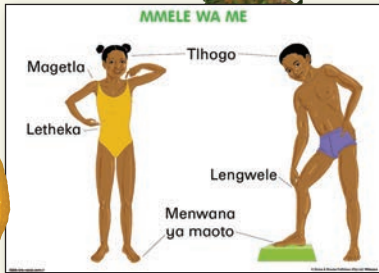
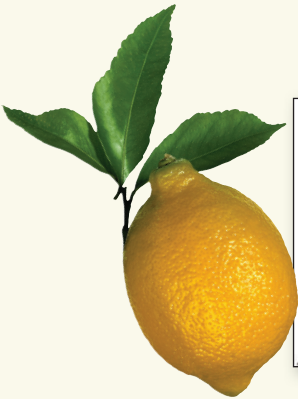
NATIONAL ANTHEM and FLAG
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JUNIOR SETSWANA CHARTS VARIOUS SUBJECTS

Literacy, Numeracy and Life Skills are represented. Each A2 size chart (42 cm x 59 cm) is brightly illustrated to bring your classroom to life. Learning in Setswana is great fun!

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JUNIOR SETSWANA CHARTS VARIOUS SUBJECTS

Literacy, Numeracy and Life Skills are represented. Each A2 size chart (42 cm x 59 cm) is brightly illustrated to bring your classroom to life. Learning in Setswana is great fun!

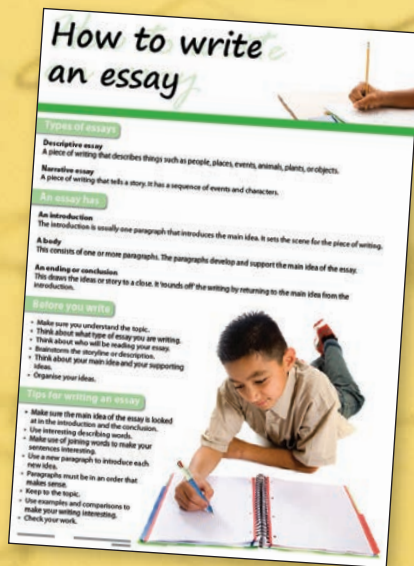
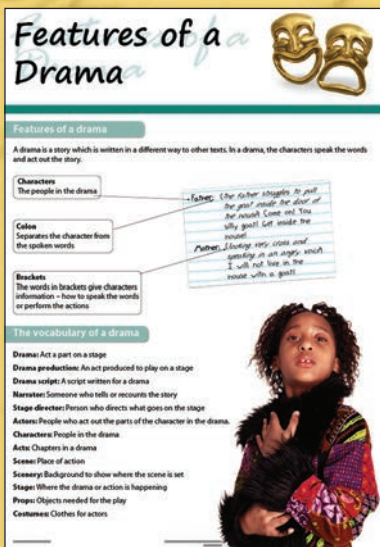
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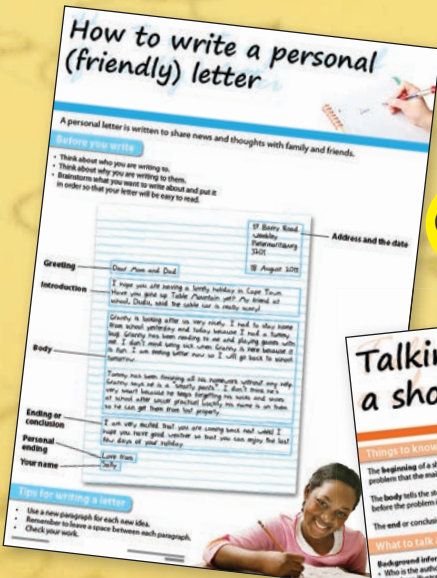


LEARNING ABOUT LANGUAGE CHARTS SELECTION

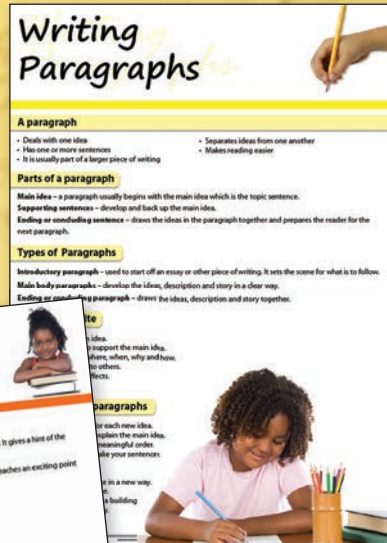
Writing is a skill of the mind as well as a craft of the hand. This wellorganised selection of charts empower the understanding, learning and practise of paragraph writing, short stories, personal letters, essays and drama. They are suitable for all ages. The charts are available in English, Afrikaans, IsiZulu, IsiXhosa, Ndebele, Sepedi, Setswana, Sesotho, Siswati and Xitsonga. All charts are size A2 (420mm x 594mm) on sturdy white stock.

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size A2
(420mm x 594mm)
R43.58 EACH



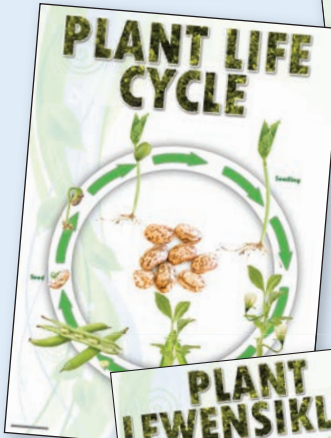
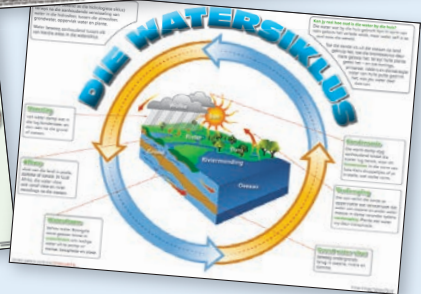
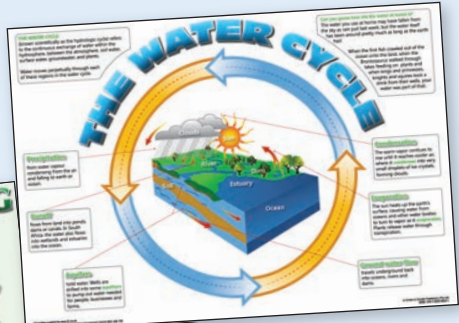
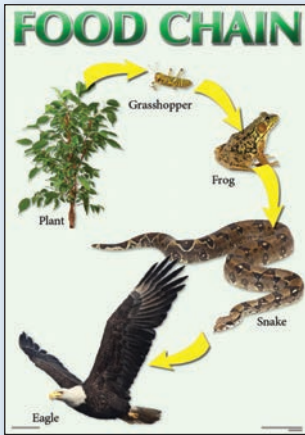
SCIENCES CHARTS SELECTION

Suitable for Foundation to Senior Phase classrooms, these Food Chain, Water Cycle, Plant Life Cycle and the slightly more advanced Plant Reproduction charts will help learners make sense of the pattern of life.

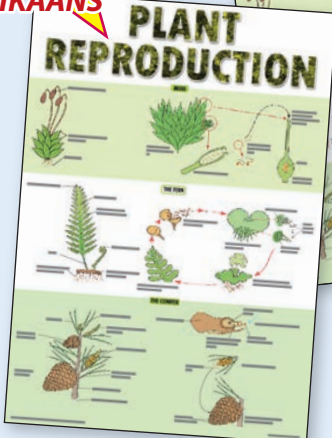
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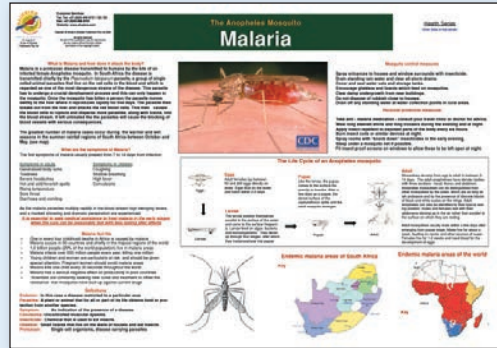


YOUR HEALTH – YOUR LIFE SERIES

A2 size charts (42 cm x 59 cm). *Nutrition* highlights foodstuffs in 5 food-groups that are vital for our wellbeing, giving a strong visual aid to learners finding out about the needs of their bodies. *Malaria* illustrates and discusses malaria-bearing mosquitoes, and prevention and treatment of the disease.

R43.58

NUTRITION	9781919954981
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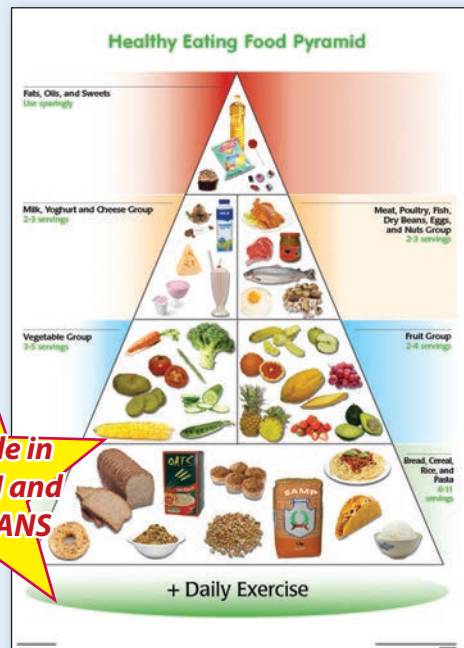


HEALTHY EATING PYRAMID

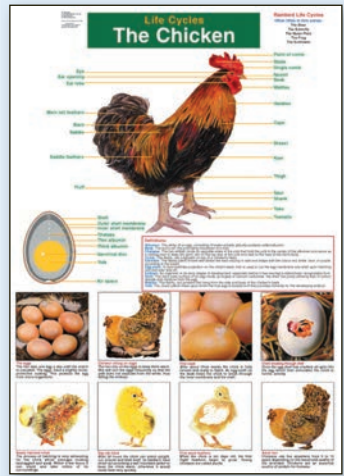
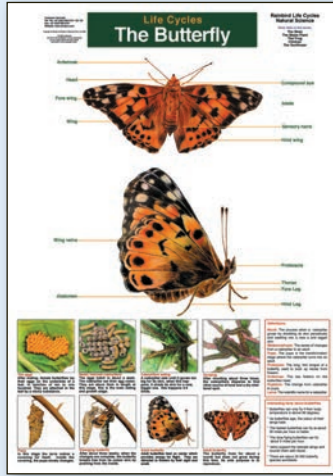
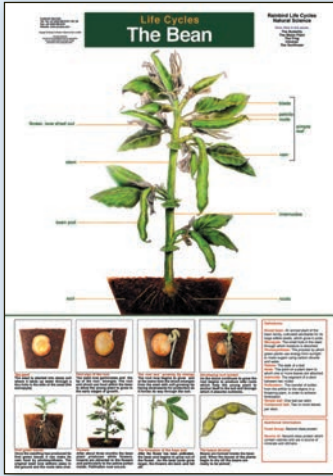
This A2 size (42 cm x 59 cm) chart is a wonderful classroom tool for all ages. By studying the sorts and amount of different food groups our bodies require daily, the learners come to understand how to maintain a healthy diet.



Available in ENGLISH and AFRIKAANS



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LIFE CYCLE SERIES

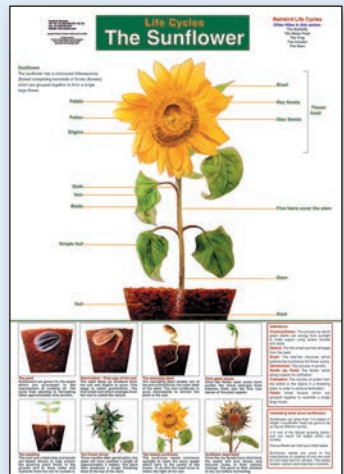
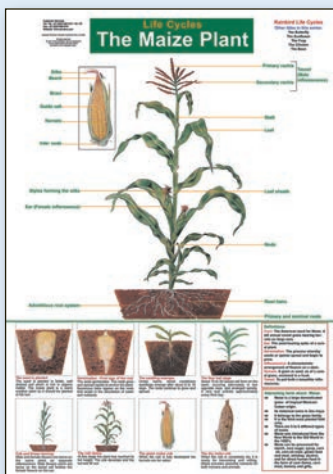
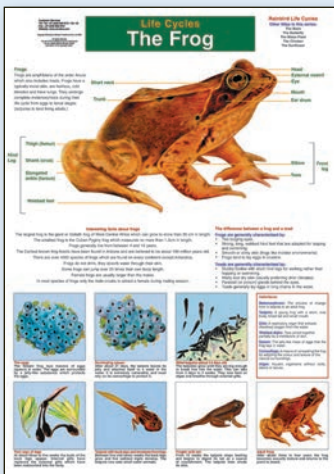
Reinforce the classroom experience with these A2 size charts (42 cm x 59 cm). Cutaway diagrams as well as labelled, full-size diagrams and photographs, make the series of six charts a wonderful enrichment.

R43.58 each or R261.00 for a set of 6



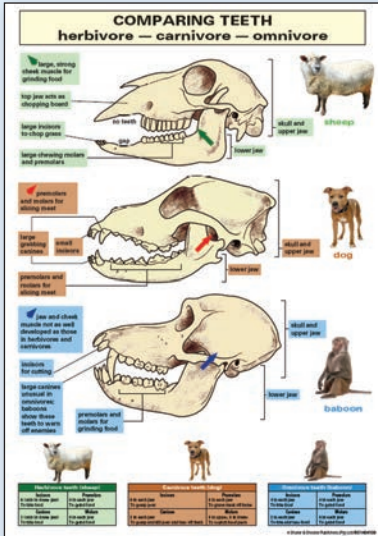
LIFE CYCLES OF ...	ENGLISH	AFRIKAANS
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THE CHICKEN	9781920004040	9781920004422
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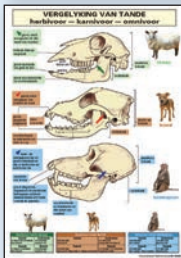


LIFE SCIENCES CHART SELECTION

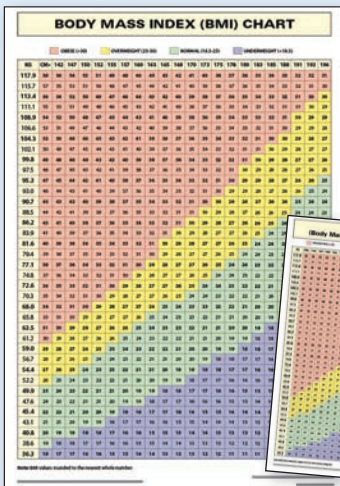
Help your learners to more easily understand some of the lessons being undertaken in Life Sciences. The large format charts empower them to ask thoughtful questions and reinforce some of the more complex issues they are learning. Available in English and Afrikaans.



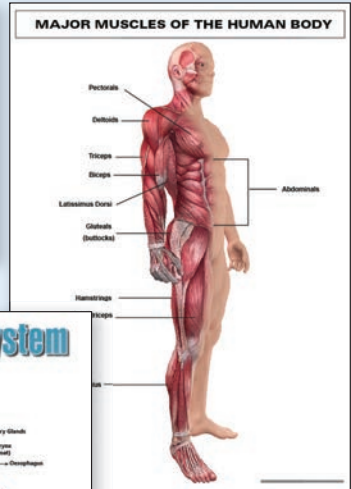
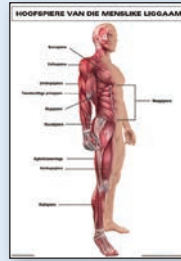
A1 size (594mm x 840mm)



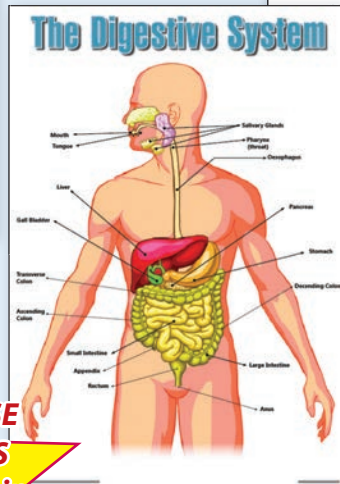
A2 size (42 cm x 59 cm)



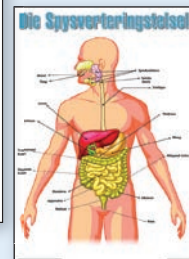
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A1 size (594mm x 840mm)



A2 size (42 cm x 59 cm)



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AGRICULTURAL SCIENCES

Beef cattle in South Africa

Dominant and most popular breeds

Who farms beef and what purpose cattle?

Pig breeds in South Africa

Sheep breeds in South Africa

AGRICULTURAL SCIENCES – BREEDS OF BEEF, PIGS and SHEEP

A2 size charts (42 cm x 59 cm). The most popular breeds of stock animals reared in South Africa.

BEEF CATTLE IN SOUTH AFRICA	9781920615451	R43.58 EACH
PIG BREEDS IN SOUTH AFRICA	9781920615468	
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THE STORY OF ... CHART SET

Want to know about paper or milk production? Everything you need to know in either of these full colour, A2 size charts (59 cm x 42 cm).

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THE STORY OF MILK
9781920004354

The story of Milk

The story of Paper

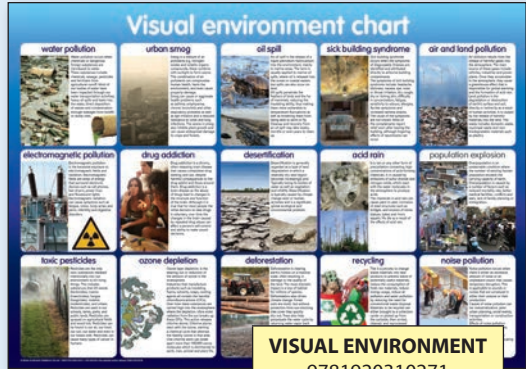


VISUAL SOLAR SYSTEM
9780796059277

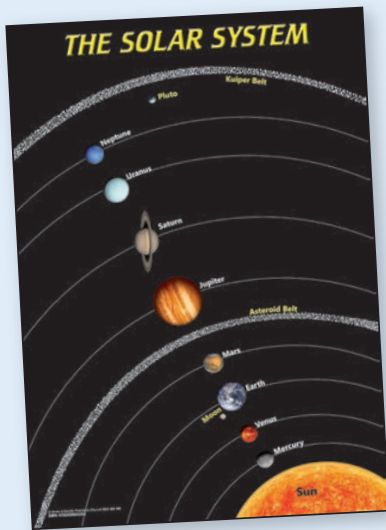
VISUAL SERIES – SCIENCE

Full colour A1 size wall charts (84 cm x 59 cm) exploring our own unique and exciting world and the mysterious planets of our solar system. Up-to-date and relevant.

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VISUAL ENVIRONMENT
9781920310271



THE SOLAR SYSTEM

The up-to-date Solar System shown in this easy access poster notes that Pluto is now longer considered a planet. Planets are shown in relative sizes. Poster also shows the two important asteroid belts. A2 size (42 cm x 59 cm).

THE SOLAR SYSTEM 9781920615253 **R43.58**

**** SET OF TWO ****

INVENTORS AND THEIR INVENTIONS

From ballpoint pens to penicillin, shark repellents and fingerprint recognition, it is clear that inventors have changed the face of human life on this planet. These charts discuss some key inventors of history, both international and home grown South African, illustrating their most memorable inventions. A1 size (84 cm x 59 cm)

R110.80



INTERNATIONAL INVENTORS AND THEIR INVENTIONS	SET OF TWO
SOUTH AFRICAN INVENTORS AND THEIR INVENTIONS	9781920004972

ROCK TYPES

In full colour, A2 size wall charts (59 cm x 42 cm) and available in English and Afrikaans. Rock types are shown in three basic sorts, with captioned samples for easy access reference. **R43.58**



ROCK TYPES	9781920586225
SOORTE ROTTS	9781920586232

Available in
**ENGLISH and
AFRIKAANS**

KEY SCIENCE / TECHNOLOGY CHARTS

No classroom would be complete without these two key science charts. In full colour, A2 size wall charts (59 cm x 42 cm)

Time
1 second (s) = 60 seconds
1 minute (min) = 60 minutes
1 day (d) = 24 hours
1 week (w) = 7 days
1 month (m) = 30 days
1 year (y) = 12 months
1 century = 100 years
1 millennium = 1 000 years
Play for your years in one day if needed. (20 February)
This is called a leap year.

Converting Miles to Imperial
Miles to Inches = 0.0394
Miles to Feet = 1.366
Miles to Yards = 1.094
Kilometres to Miles = 0.6214
Gears to Centres = 0.025
Kilograms to Pounds = 2.205
Metres to Feet = 3.281

Converting Imperial to Metric
Multiple by
Inches to Millimetres = 25.4
Feet to Metres = 0.305
Yards to Metres = 0.914
Miles to Kilometres = 1.609
Ounces to Grams = 28.3495
Pounds to Kilograms = 0.4536
Acres to Hectares = 0.4047

Seasons in the southern hemisphere
Winter: June, July, August
Spring: September, October, November
Summer: December, January, February
Autumn: March, April, May
Winter equinox = 22 September
Spring equinox = 23 March
Summer equinox = 21 December
Autumn equinox = 23 September
Equinox: Length of day and night are equal
Solstice: Summer has the longest day, Winter has the shortest day.

Measurements for baking
1 teaspoon (tsp) = 5 millilitres (ml)
1 tablespoon (tbsp) = 15 millilitres (ml)
1 cup = 250ml
1 litre = 1 000ml

Weight
1 kilogram (kg) = 1 000g
1 metric tonne (t) = 1 000kg

Length
1 metres (m) = 100cm
1 metres (m) = 1000mm
1 kilometre (km) = 1 000m

Area
1 square metre (m²) = 10 000cm²
1 square metre (m²) = 10 000dm²
1 hectare (ha) = 10 000m²
1 square kilometre (km²) = 1 000 000m²

Volume
1 cubic centimetre (cm³) = 1 000mm³
1 cubic centimetre (cm³) = 1 000 000mm³
1 litre = 1 000ml

Temperature
To convert °C to °F, multiply by 9, divide by 5, and add 32.
To convert °F to °C, subtract 32, divide by 9, and multiply by 5.
Fahrenheit (°F) Celsius (°C)
32° 0°
50° 10°
68° 20°
99° 37°
100° 38°
158° 65°
176° 80°
194° 92°
212° 104°
230° 116°
250° 130°
270° 158°
280° 166°

Numeral Terms
One, Two, Three, Four, Five, Six, Seven, Eight, Nine, Ten, Eleven, Twelve, Thirteen, Fourteen, Fifteen, Sixteen, Seventeen, Eighteen, Nineteen, Twenty, Twenty-one, Twenty-two, Twenty-three, Twenty-four, Twenty-five, Twenty-six, Twenty-seven, Twenty-eight, Twenty-nine, Thirty, Thirty-one, Thirty-two, Thirty-three, Thirty-four, Thirty-five, Thirty-six, Thirty-seven, Thirty-eight, Thirty-nine, Forty, Forty-one, Forty-two, Forty-three, Forty-four, Forty-five, Forty-six, Forty-seven, Forty-eight, Forty-nine, Fifty, Fifty-one, Fifty-two, Fifty-three, Fifty-four, Fifty-five, Fifty-six, Fifty-seven, Fifty-eight, Fifty-nine, Sixty, Sixty-one, Sixty-two, Sixty-three, Sixty-four, Sixty-five, Sixty-six, Sixty-seven, Sixty-eight, Sixty-nine, Seventy, Seventy-one, Seventy-two, Seventy-three, Seventy-four, Seventy-five, Seventy-six, Seventy-seven, Seventy-eight, Seventy-nine, Eighty, Eighty-one, Eighty-two, Eighty-three, Eighty-four, Eighty-five, Eighty-six, Eighty-seven, Eighty-eight, Eighty-nine, Ninety, Ninety-one, Ninety-two, Ninety-three, Ninety-four, Ninety-five, Ninety-six, Ninety-seven, Ninety-eight, Ninety-nine, One hundred, One hundred and one, One hundred and two, One hundred and three, One hundred and four, One hundred and five, One hundred and six, One hundred and seven, One hundred and eight, One hundred and nine, Two hundred, Two hundred and one, Two hundred and two, Two hundred and three, Two hundred and four, Two hundred and five, Two hundred and six, Two hundred and seven, Two hundred and eight, Two hundred and nine, Three hundred, Three hundred and one, Three hundred and two, Three hundred and three, Three hundred and four, Three hundred and five, Three hundred and six, Three hundred and seven, Three hundred and eight, Three hundred and nine, Four hundred, Four hundred and one, Four hundred and two, Four hundred and three, Four hundred and four, Four hundred and five, Four hundred and six, Four hundred and seven, Four hundred and eight, Four hundred and nine, Five hundred, Five hundred and one, Five hundred and two, Five hundred and three, Five hundred and four, Five hundred and five, Five hundred and six, Five hundred and seven, Five hundred and eight, Five hundred and nine, Six hundred, Six hundred and one, Six hundred and two, Six hundred and three, Six hundred and four, Six hundred and five, Six hundred and six, Six hundred and seven, Six hundred and eight, Six hundred and nine, Seven hundred, Seven hundred and one, Seven hundred and two, Seven hundred and three, Seven hundred and four, Seven hundred and five, Seven hundred and six, Seven hundred and seven, Seven hundred and eight, Seven hundred and nine, Eight hundred, Eight hundred and one, Eight hundred and two, Eight hundred and three, Eight hundred and four, Eight hundred and five, Eight hundred and six, Eight hundred and seven, Eight hundred and eight, Eight hundred and nine, Nine hundred, Nine hundred and one, Nine hundred and two, Nine hundred and three, Nine hundred and four, Nine hundred and five, Nine hundred and six, Nine hundred and seven, Nine hundred and eight, Nine hundred and nine, One thousand, One thousand and one, One thousand and two, One thousand and three, One thousand and four, One thousand and five, One thousand and six, One thousand and seven, One thousand and eight, One thousand and nine, Two thousand, Two thousand and one, Two thousand and two, Two thousand and three, Two thousand and four, Two thousand and five, Two thousand and six, Two thousand and seven, Two thousand and eight, Two thousand and nine, Three thousand, Three thousand and one, Three thousand and two, Three thousand and three, Three thousand and four, Three thousand and five, Three thousand and six, Three thousand and seven, Three thousand and eight, Three thousand and nine, Four thousand, Four thousand and one, Four thousand and two, Four thousand and three, Four thousand and four, Four thousand and five, Four thousand and six, Four thousand and seven, Four thousand and eight, Four thousand and nine, Five thousand, Five thousand and one, Five thousand and two, Five thousand and three, Five thousand and four, Five thousand and five, Five thousand and six, Five thousand and seven, Five thousand and eight, Five thousand and nine, Six thousand, Six thousand and one, Six thousand and two, Six thousand and three, Six thousand and four, Six thousand and five, Six thousand and six, Six thousand and seven, Six thousand and eight, Six thousand and nine, Seven thousand, Seven thousand and one, Seven thousand and two, Seven thousand and three, Seven thousand and four, Seven thousand and five, Seven thousand and six, Seven thousand and seven, Seven thousand and eight, Seven thousand and nine, Eight thousand, Eight thousand and one, Eight thousand and two, Eight thousand and three, Eight thousand and four, Eight thousand and five, Eight thousand and six, Eight thousand and seven, Eight thousand and eight, Eight thousand and nine, Nine thousand, Nine thousand and 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and three, One billion and four, One billion and five, One billion and six, One billion and seven, One billion and eight, One billion and nine, One trillion, One trillion and one, One trillion and two, One trillion and three, One trillion and four, One trillion and five, One trillion and six, One trillion and seven, One trillion and eight, One trillion and nine.

PERIODIC TABLE

Group
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

Period
1 2 3 4 5 6 7

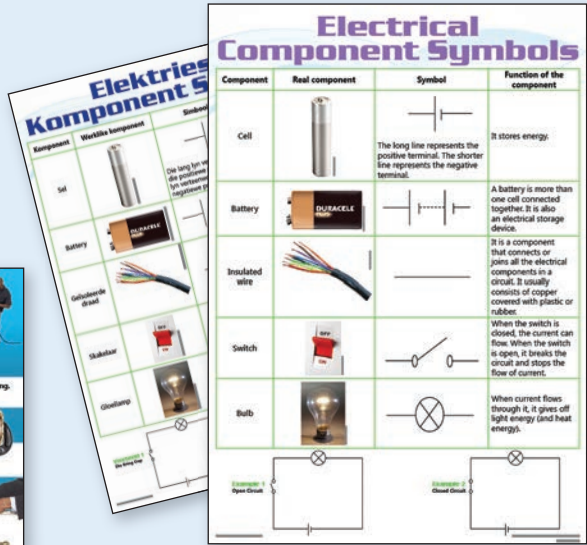
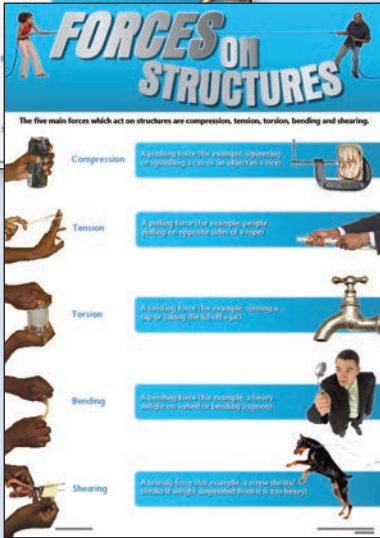
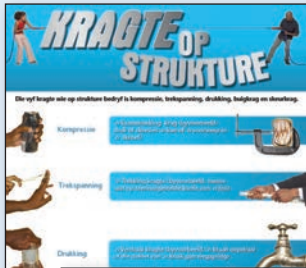
Legend:
Nonmetals (Yellow)
Alkali metals (Red)
Alkaline Earth metals (Orange)
Transition elements (Green)
Other metals (Blue)
Metalloids (Purple)
Halogenes (Light Blue)
Noble gases (Dark Blue)
Lanthanides (Pink)
Actinides (Light Purple)

Definitions:
The periodic table, the arrangement of the chemical elements, is based on their atomic number and the periodicity of their chemical properties.
A group (also known as a family, or a vertical column in the periodic table) is a set of elements with similar chemical and physical properties.
A period (also known as a horizontal row) is a set of elements with similar chemical and physical properties.
The periodic table is divided into four main blocks: s-block, p-block, d-block, and f-block.
The s-block consists of the alkali metals and alkaline earth metals.
The p-block consists of the nonmetals, metalloids, and noble gases.
The d-block consists of the transition metals.
The f-block consists of the lanthanides and actinides.
The periodic table is a key tool for understanding the chemical and physical properties of the elements.

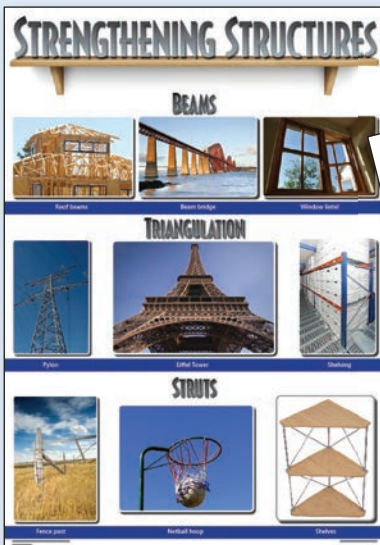
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Wellwritten text, clear photographic illustrations and easy-to-follow diagrams explaining some basic technology concepts and phenomena on these full colour A2 size (42 cm x 59 cm) charts. Charts are available in English OR Afrikaans. **R43.58 EACH**



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TECHNOLOGY WALL CHARTS FOR THE SENIOR PHASE

A2 size (59 cm x 42 cm) wall charts reinforce the complex but repetitive base information required to establish learnership in this vital subject. In easy access layout, the charts empower the viewer to reach further in their quest for technological lifelong learning. **R43.58 EACH**

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AFT PYLON
145B400
145B423
SP100

ELECTRICAL COMPONENTS and SYMBOLS - ADVANCED

Symbol	Symbol	Symbol	Symbol	Symbol	Symbol	Symbol	Symbol
Electrochemical cell	Series battery	Parallel battery	Push switch	SPST switch	SPDT switch	Variable resistor	Ball-bulb indicator
Diode	LED	Light-emitting Diode	Variable capacitor	Capacitor - Polarized	Capacitor - Unpolarized	Motor	Wattmeter
Ammeter	Current meter	Diode	LED	Light-emitting Diode	Variable capacitor	Capacitor - Polarized	Capacitor - Unpolarized
Transformer	Capacitor - Polarized	Capacitor - Unpolarized	Motor	Wattmeter	Current meter	Diode	LED

Types of Structures

There are three main types of structures: shell, frame and solid (mass).

Frame structures
A frame structure is made up of members joined in a specific way. Frame structures are light, support loads and span gaps.

Shell structures
A shell structure is a hard casing or outer covering made of thin material shaped into one piece. Shell structures rely on their shape for strength. The function of the shell is to enclose, hold, contain or protect its contents.

Solid structures
Solid structures are also called mass structures. A solid structure is formed into a solid shape.



TYPES OF LEVERS

FIRST CLASS LEVERS
Claw hammer

SECOND CLASS LEVERS
Wheelbarrow

THIRD CLASS LEVERS
Human arm
Sugar tongs
Nutcracker

Drawing Conventions

Convention	Example	Description	Use	Application
Outlines		Thick or dark lines	• Outlines of drawings • Lines for cutting or shaping • Outer limits of drawing	
Construction lines		Thin or faint lines	• Folding or bending lines • Dimension lines • Construction lines	
Hidden details		Dashed lines	• Hidden details	
Scale		A scale drawing is drawn to a particular size. You can scale something down so that it fits on a piece of paper or you can scale something up.	• To draw big things to fit on a page • To make small things bigger	
Dimensioning		A very thin line with sharp arrowheads and the measurement	• Overall length, width and height of the product • The sizes of the main parts	

Types of bridges

Beam and column bridges

The beam is supported at each end by columns. Columns are designed to hold the weight of the bridge.

Suspension bridges

The deck or road is suspended or hangs from the main cable in the bridge.

Cable-stayed bridges

Cables keep the deck or road in place and prevent movement.

Arch bridges

An arch bridge is a with abutments at each end and is shaped as a curved arch.

PAPER RECYCLING PROCESS

The process involves: Collection of waste paper and cardboard from recycling bins; Shifting, sorting of collected materials into types and grades; Removal of impurities (loop and water); Cleaning of paper, adding pulp to strengthen paper; Production of new paper products; and Removal of impurities (cleaning and bleaching).

Types of GEARS

RACK AND PINION: Shows a rack (straight-toothed gear) and a pinion (circular gear) meshing together. Arrows indicate their opposite directions of motion.

BEVEL GEAR: Shows two bevel gears meshing at an angle. Arrows indicate their opposite directions of motion.

WORM AND WORM WHEEL: Shows a worm (screw-like gear) meshing with a worm wheel. Arrows indicate their opposite directions of motion.

SPUR GEARS: Shows two spur gears meshing. Arrows indicate their opposite directions of motion.

Understanding Plastic Recycling Codes

Name of plastic	Code	Properties	Uses
Polyethylene Terephthalate (PET)	1	Clear, Tough, Waterproof, 100% recyclable	Medicine containers, beverage bottles, combs, bean bags
High Density Polyethylene (HDPE)	2	Stiff and strong, Not transparent	Detergent bottles, milk containers, shampoo bottles, soap bottles
Polyvinylchloride (PVC)	3	Transparent, Tough and strong, Can be stiff or flexible	Plumbing pipes, tiles for floors and skirting
Low Density Polyethylene (LDPE)	4	Tough and flexible, Waterproof	Sandwich bags, shopping bags, bottles, cling wrap
Polypropylene (PP)	5	Strong, flexible or stiff, Can withstand heat	Plastic containers, margarine containers, yogurt bottles
Polystyrene (PS)	6	Soft but breaks, cracks or crumbles quite easily (crumbles into sharp, thin or cold)	Takeaway cups, food boxes, meat or vegetable packaging trays, foam packaging, plastic cutlery
Other	OTHER	All other kinds of plastic, not listed in 1-6. It also includes combinations of different kinds of plastics	Compact discs, baby bottles, medical storage containers

1ST ANGLE ORTHOGRAPHIC PROJECTION

When viewing a 3D object: The Front View is the view that is drawn by looking at the object from the front of the object. The Top View is the view that is drawn by looking at the object from the top of the object. The Side View is the view that is drawn by looking at the object from either the left side or the right side.

In 1st Angle Orthographic Projection: The Front View is drawn above the Top View. The Top View is drawn below the Front View. The Left View is drawn on the right of the Front View. The Right View is drawn on the left of the Left View.

TAIL CONE
145S3971

ACCESS PANEL
234S8058

COWL FAIRING
145S3912

FAIRING
5004

MARK PLATFORM
S5951

FAIRING AFT
RIDING GEAR
S5919

CARGO DOOR
414S0002

MONITOR/COMB
145S809

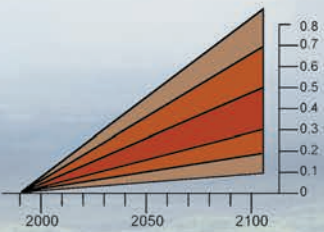
AUX RAMP
145S8071

RAMP
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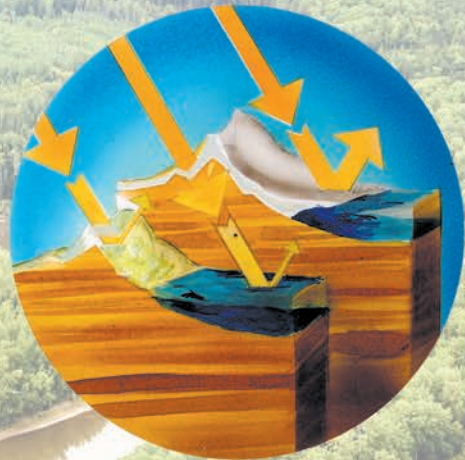
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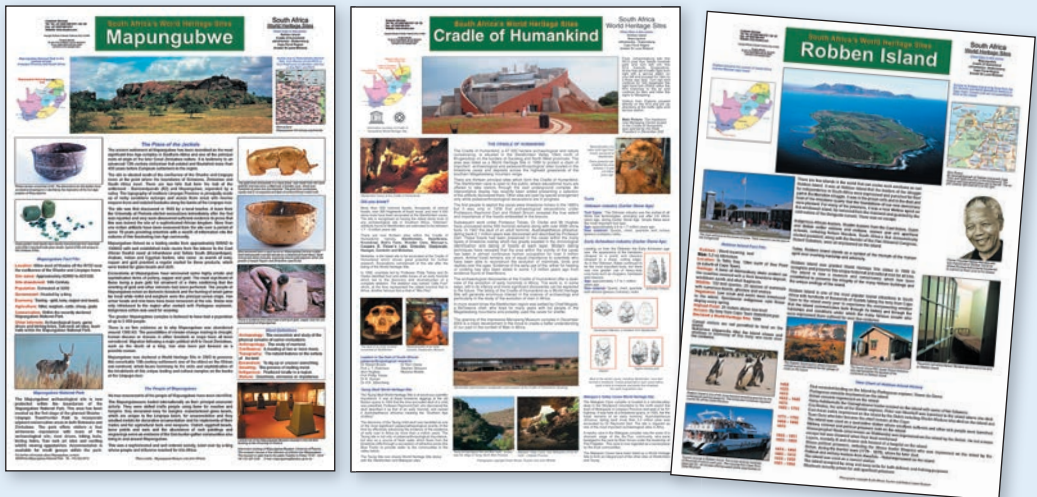
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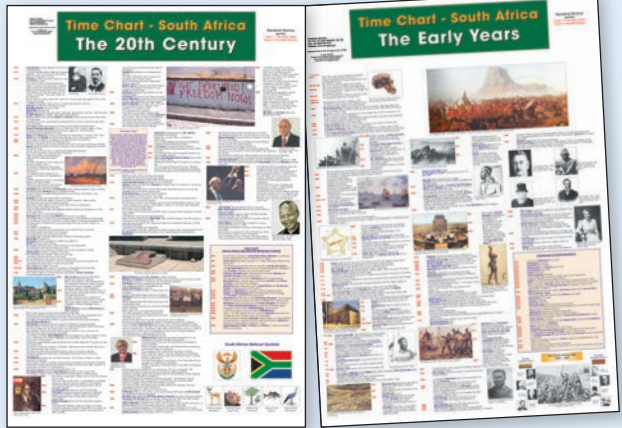
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Instill a sense of national pride in each learner. Learn how to sing our National Anthem. Examine our currency (coins and notes) and learn what makes them special.

A2 size charts (42 cm x 59 cm).

NATIONAL ANTHEM and FLAG



Nkosi sikelel' i-Afrika,
Maluphakanyisw' uphondo lwayo,
Yizwa imihandazo yethu,
Nkosi sikelela, thina lusapho lwayo.

Morena boloka setjhaba sa heso,
O fedise dintwa
O se boloke, O se boloke setjhaba sa heso,
Setjhaba sa South Afrika - South Africa.

Uit die blou van onse hemel,
Uit die diepte van ons see,
Oor ons ewige gebergtes,
Waar die kranse antwoord gee,

Sounds the call to come together,
And united we shall stand,
Let us live and strive for freedom,
In South Africa our land.

South African National Anthem

Nkosi sikelel' i-Afrika,
Maluphakanyisw' uphondo lwayo,
Yizwa imihandazo yethu,
Nkosi sikelela, thina lusapho lwayo.

Morena boloka setjhaba sa heso,
O fedise dintwa
O se boloke, O se boloke setjhaba sa heso,
Setjhaba sa South Afrika - South Africa.

Uit die blou van onse hemel,
Uit die diepte van ons see,
Oor ons ewige gebergtes,
Waar die kranse antwoord gee,

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And united we shall stand,
Let us live and strive for freedom,
In South Africa our land.

CURRENCY OF SOUTH AFRICA



How are bank notes made? (cutting)

How are coins made? (minting)

THE BANKNOTE FACTS

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WHERE TO GET HELP

AIDS helpline	0800 012222
Child Welfare of Sexual, Emotional and Physical Abuse	0800 010553
Childline	0800 955 505
Emergency service - ambulance	10 117
Emergency service - police	10 111
Epilepsy SA	0650 234 537
Lifeline National Counselling Line	0801 322 322
Lovelife youth line	0800 121 900
Mario Stagers Clinics	0800 117 785
National emergency contraception hotline	0800 246 432
SABO (South Africans Against Drugs/ Drugged Driving)	033 3410193
SANCA	0801 427622
South African Depression and Anxiety Group	0800 967 967 or 011 31393
South African Sexual Health Association helpline	0800 100 282
Tesatink	042 850 7509
Theta Junction youth line (Lovelife)	0800 121 900



WAAR OM HULP TE KRY

AIDS helpline	0800 012222
Child Welfare of Sexual, Emotional and Physical Abuse	0800 010553
Childline	0800 955 505
Emergency service - ambulance	10 117
Emergency service - police	10 111
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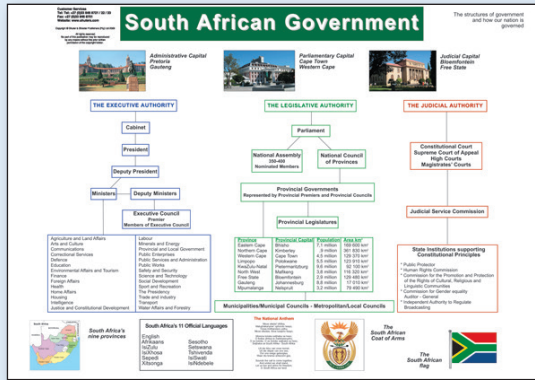
WHERE TO GET HELP

In such a large country, everyone needs help sometimes. Use this highly informative chart to get the help you need. A2 size (42 cm x 59 cm).

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Learn about South Africa's Freedom Charter. Examine organograms explaining how our government is formed, and where the 'seats' of government are situated. A2 size charts (42 cm x 59 cm).

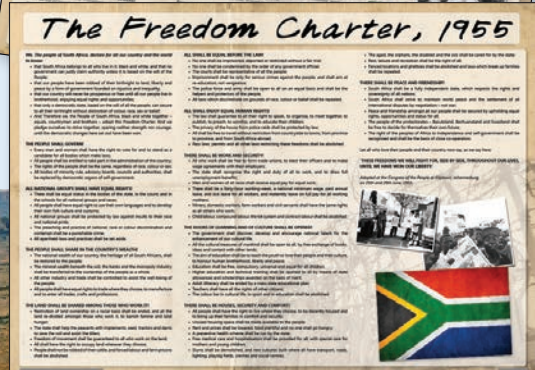


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 A2 size charts (42 cm x 59 cm). SA National Symbols available in English with one other language (Afrikaans, isiZulu, isiXhosa, Sepedi, Setswana or Sesotho).

Nkosi Sikelel' iAfrika
 The Story of our National Anthem

THE SOUTH AFRICAN NATIONAL ANTHEM

SA NATIONAL SYMBOLS

The Republic of South Africa Orders and Symbols

The National Flag of the Republic of South Africa

The National Coat of Arms of the Republic of South Africa

The National Tree of the Republic of South Africa

The National Flower of the Republic of South Africa

The National Animal of the Republic of South Africa

The National Bird of the Republic of South Africa

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The Order of Merit

The Order of the Republic

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South African National Symbols
 Setswana-English edition

Moano wa Basothaba
 The Coat of Arms

Sehlopha sa Basothaba
 National bird

Sehlopha sa Basothaba
 National flower

Sehlopha sa Basothaba
 National tree

Sehlopha sa Basothaba
 National fish

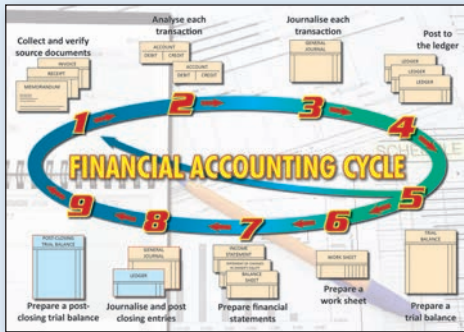
Sehlopha sa Basothaba
 National animal

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ECONOMIC MANAGEMENT SCIENCES CHARTS

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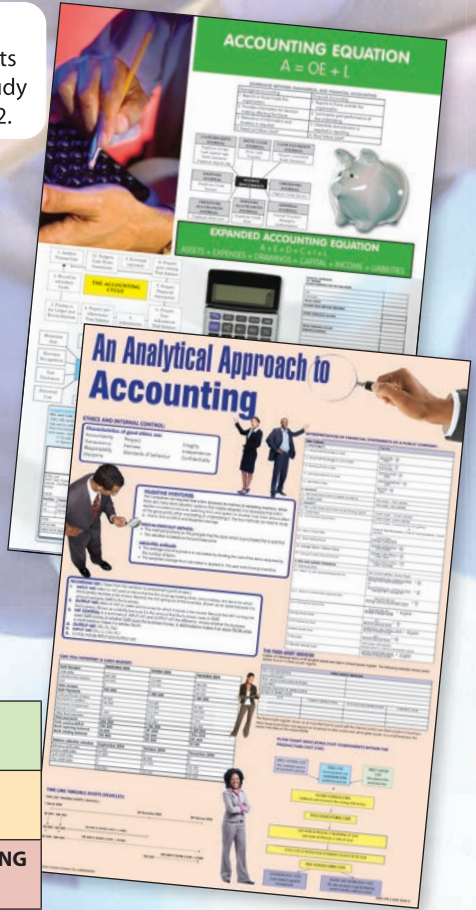
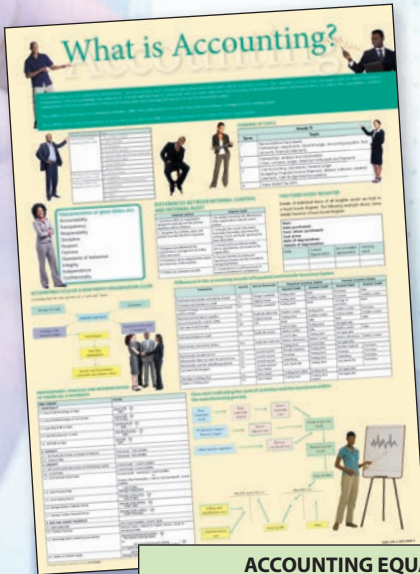


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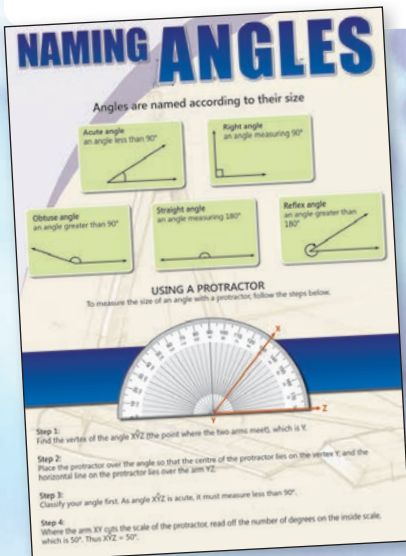


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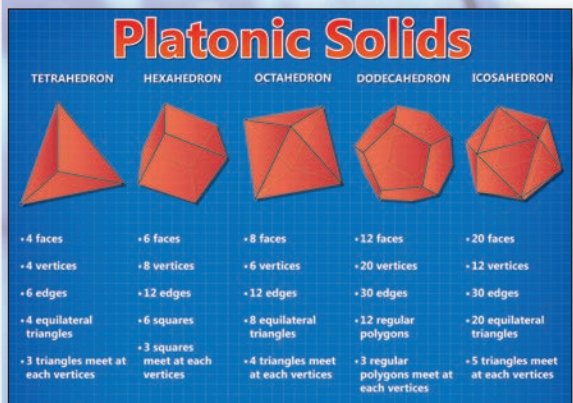
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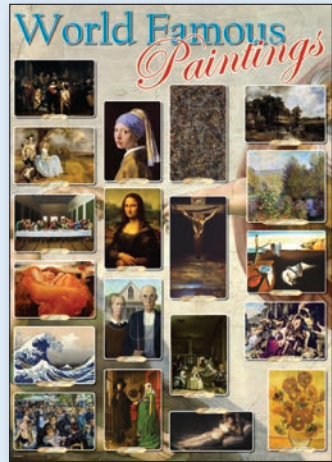
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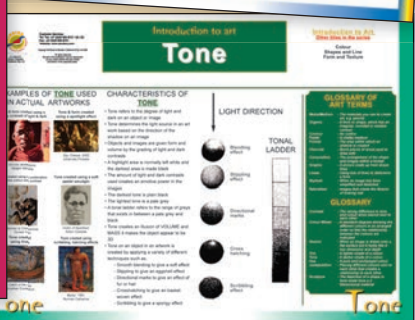
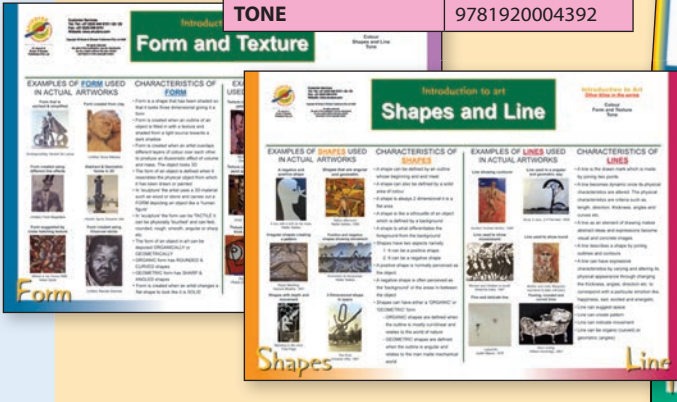


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THE WORLD IN 1920

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THE WORLD IN 1920
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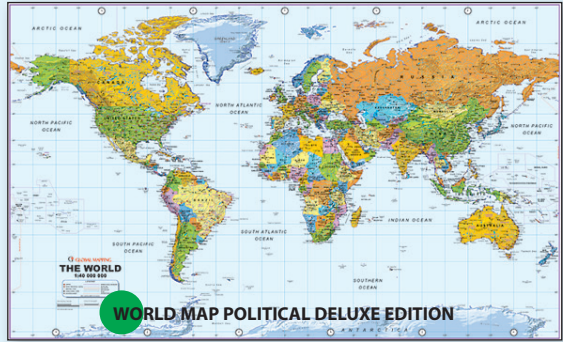
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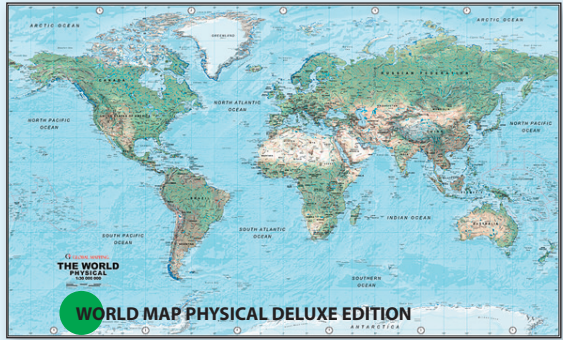
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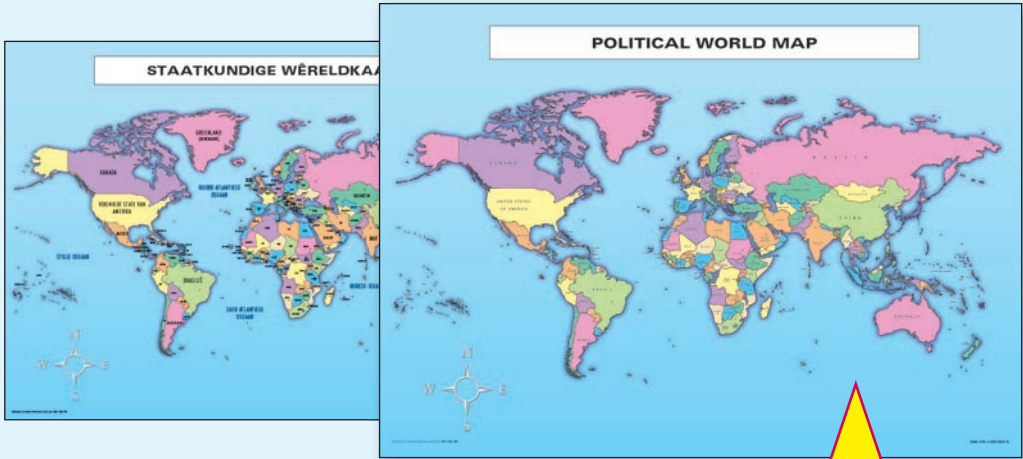
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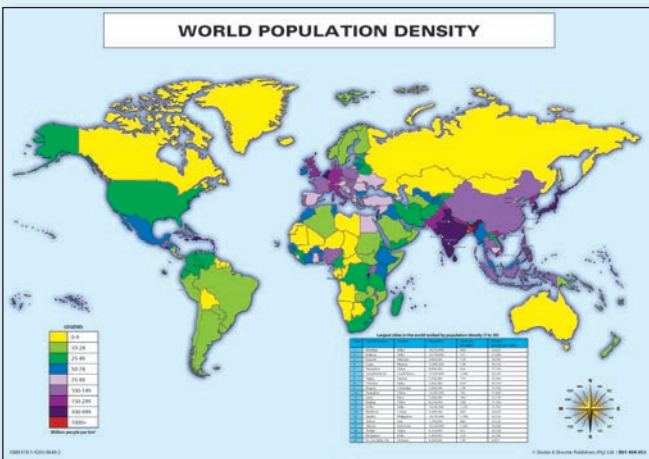
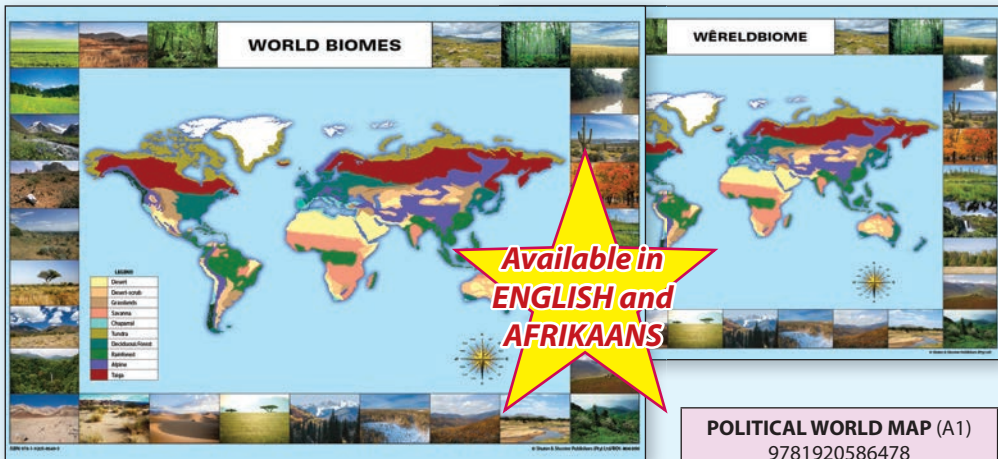
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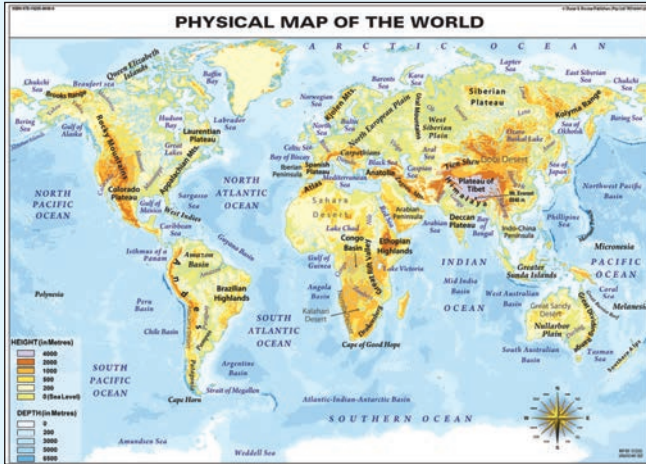
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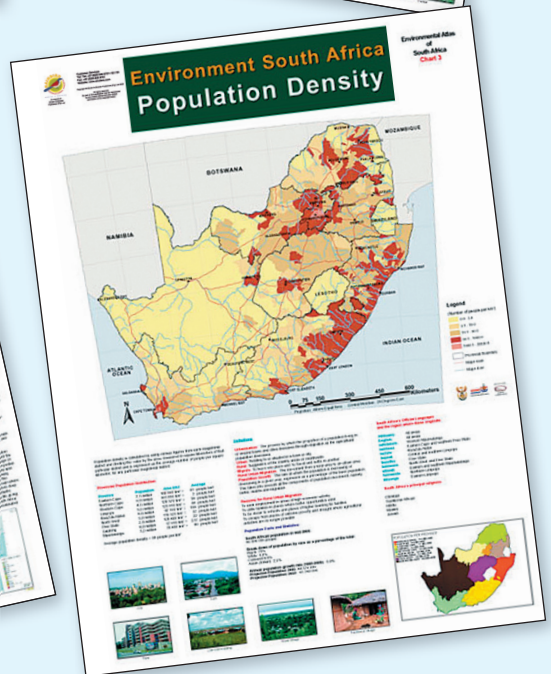
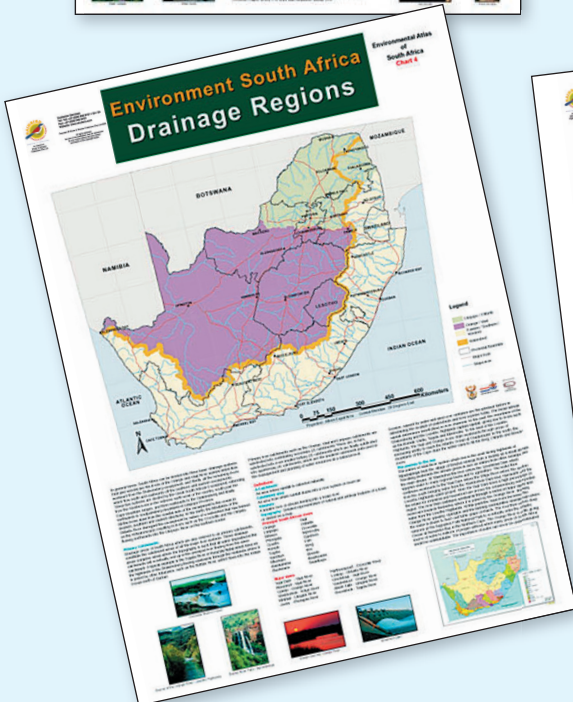
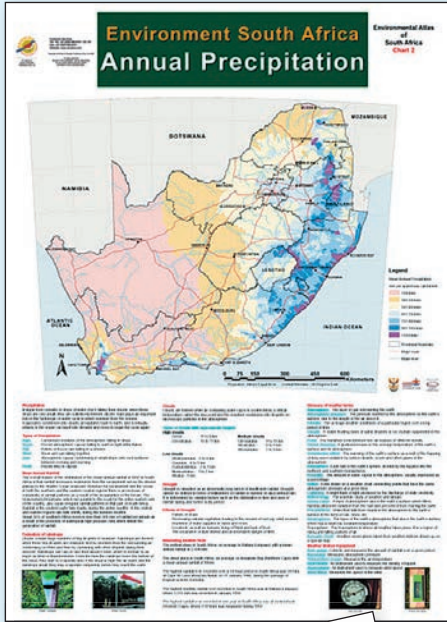
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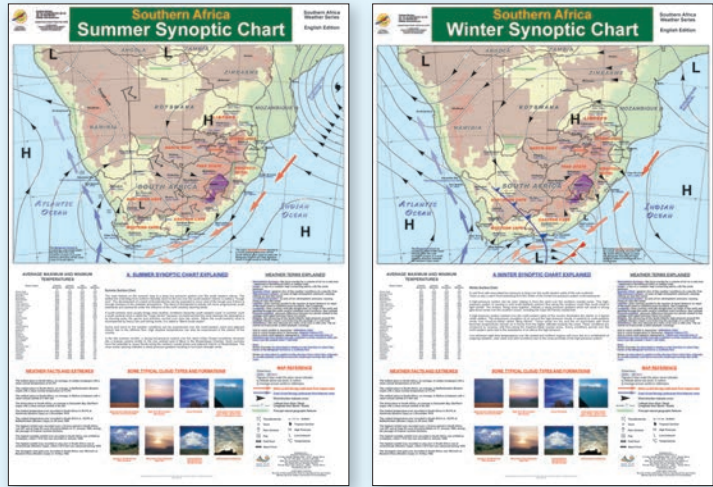


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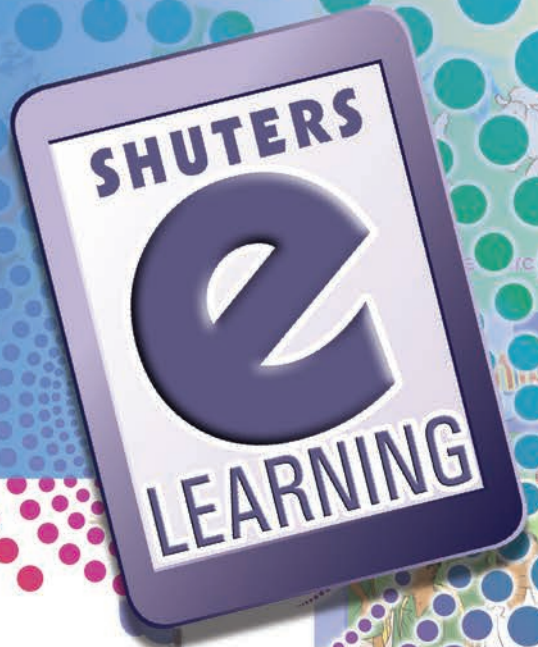
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