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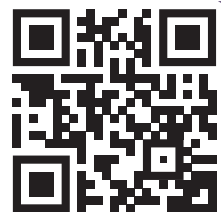
FREE 4 ALL

South Africa's Senior & FET Phase Newspaper
Number 1 (2026)

delivering learning outcomes
in a fun way!



MASKI



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B-BBEE status: Level 1

WHAT'S YOUR STUDY STYLE?



HOW DO YOU STUDY FOR TESTS & HANDLE YOUR HOMEWORK ASSIGNMENTS?

**CHECK TO SEE IF YOU ARE MAKING USE OF ALL THE
AVAILABLE AI TOOLS THAT ARE OUT THERE TO ASSIST YOU**

1 TO STUDY YOU NEED ...

- A Total peace and quiet
- B A little background noise to help you concentrate
- C Anywhere – as long as you have your mobile phone with you

2 YOU ARE REVISING FOR A TEST. YOU ...

- A Plan your study time well ahead
- B Cram the night before
- C Make full use of all the study aids available for you

3 IF YOU HAVE TOTAL MENTAL BLOCK ON AN ASSIGNMENT DO YOU ...

- A phone a friend
- B Search the Internet for info
- C Get out phone out for assistance

4 HOW DO YOU FEEL ABOUT GROUP STUDYING?

- A I hate it; it is so distracting
- B It's OK sometimes
- C It rocks – especially if we use available online study aids and discuss the content

5 WHAT IS YOUR FAVOURITE PLACE TO STUDY?

- A My bedroom – my bed is super comfy
- B The living room – the family noise is comforting
- C Anywhere where I can connect to Wi-Fi

6 WHEN DO YOU USUALLY DO YOUR HOMEWORK?

- A Whenever I feel like it
- B While I am watching TV or a movie
- C As soon as I get home from school

7 YOU HAVE A FREE PERIOD AT SCHOOL. HOW DO YOU SPEND IT?

- A Reading to relax
- B Catching up on social media
- C Researching cool material on MASKI to supplement a homework assignment

8 HOW DO YOU TACKLE A DIY CULT OR CHALLENGING ASSIGNMENT?

- A I struggle through it and hope for the best
- B I try and get a group to work on it together
- C I keep positive and use any study aids available to me

HOW DID YOU DO?

Mostly A

Oh dear – you don't sound too focused on your studies yet. To give you a head start – you should make use of **MASKI**, your AI assistant who can help you by generating CAPS-aligned assessments for specific subjects within minutes from your mobile phone.

Mostly B

Well done. You seem to have a balanced study style. But let's add to your study skills by asking **MASKI** for additional help. MASKI's features include practice questions for Mathematics, Life Sciences, Geography, Physical Sciences and English FAL.

Mostly C

This study year should be a good one for you if you continue to make use of **MASKI**, your AI assistant supplied to you by MML. **MASKI** is there to assist you to do your best!

STOP,
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QR code & get
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assistance!



This academic year should be a great year. Make use of MASKI, your AI assistant to test and improve your knowledge. MASKI also offers Grade 12 past exam papers direct to your mobile phone. MASKI is here to assist you to do your best!



VALUABLE VOCAB!



Having a good vocabulary makes us more effective communicators. It allows us to speak our minds, write well and convey our messages clearly. If you don't understand what others are saying – you miss out. (If you don't understand the exam question, you will lose out – BIG TIME.)

DO THIS QUICK QUIZ TO SEE HOW GOOD YOUR GENERAL VOCAB IS.
Choose the correct option for each question.

1 WHAT DOES THE WORD 'BENEVOLENT' MEAN?

- A Angry B Kind and generous
C Greedy D Sad

2 THE WORD 'ELABORATE' MEANS:

- A Simple B Complex and detailed
C Unnecessary D Quick

3 WHAT DOES 'FRIVOLOUS' MEAN?

- A Serious B Funny
C Silly or unimportant D Expensive

4 CHOOSE THE CORRECT MEANING OF 'RELUCTANT':

- A Eager B Unwilling or hesitant
C Confident D Angry

5 IF SOMEONE IS DESCRIBED AS 'AUDACIOUS,' THEY ARE:

- A Brave and bold. B Quiet and reserved
C Careful and cautious D Sad and lonely

6 WHAT IS THE MEANING OF 'DETERIORATE'?

- A To improve B To become worse
C To stay the same D To grow larger

7 THE WORD 'PRISTINE' REFERS TO SOMETHING THAT IS:

- A Dirty and messy B Clean and untouched
C Old and broken D Cheap and fake

8 WHAT DOES 'AMBIGUOUS' MEAN?

- A Clear and precise B Easy to understand
C Open to more than one interpretation
D Boring

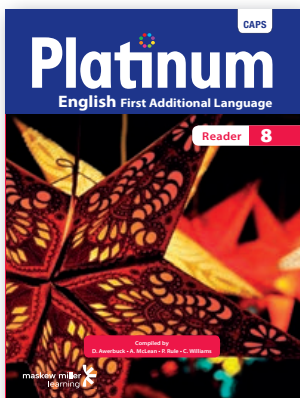
9 IF SOMEONE IS FEELING 'APPREHENSIVE,' THEY ARE:

- A Excited B Nervous or anxious
C Happy D Confused

10 WHAT IS THE MEANING OF 'SUPERFICIAL'?

- A Deep and meaningful B On the surface only
C Hard to understand D Strong and sturdy

ANSWERS: 1 B; 2 B; 3 C; 4 B; 5 A; 6 B; 7 B; 8 C; 9 B; 10 B



THE 4 TYPES OF VOCAB

- **LISTENING VOCAB** – the words we need to know to understand what we hear.
- **SPEAKING VOCAB** – the words we use when we speak.
- **READING VOCAB** – the words we need to know to understand what we read.
- **WRITING VOCAB** – the words we use in writing.

NOT READING?

YOU ARE LOSING OUT!



Reading strengthens your brain and if you're not a reader, there are quite a few skills and benefits you are missing out on.

READING IS GOOD FOR YOU AND IS THE SUPERPOWER FOR SUCCESS

CRITICAL THINKING:

Reading, especially fiction or complex nonfiction, helps you understand situations and think deeper. **READING IS CREATIVE FUEL!**

FOCUS AND CONCENTRATION

Books require ongoing attention - something that's harder to build if you're mostly watching Tik Tok or YouTube.

MEMORY RETENTION

Remembering plots, characters, or arguments strengthens your memory over time. **NETFLIX IS FLEETING!**

VOCABULARY

Reading introduces you to new words in the correct context, which helps you use them correctly. **MORE WORDS=MORE POWER!**

GRAMMAR AND WRITING SKILLS

Seeing well-structured sentences repeatedly trains your brain to use better grammar and sentence structure.

SOCIAL AND EMOTIONAL INTELLIGENCE

Empathy: Fiction lets you step into someone else's shoes, which builds emotional intelligence.

Perspective: Understanding different cultures, time periods and viewpoints gives you a broader outlook on life.

INDEPENDENT LEARNING

Readers are often better at teaching themselves new things through manuals, guides or research. **READERS MAKE BETTER STUDENTS!**

STOP,
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It's A PIECE OF CAKE



Figurative language makes conversations more interesting and fun, but it can be confusing if you take everything literally.

KEY DIFFERENCES BETWEEN LITERAL AND FIGURATIVE

- **LITERAL SPEECH** means exactly what it says. Eg: 'It's raining outside' (because, well, it is).
- **FIGURATIVE SPEECH** uses creative language to make a point or comparison. Eg: 'It's raining cats and dogs' (meaning it's raining hard, but not actual cats and dogs).

CHOOSE THE CORRECT MEANING

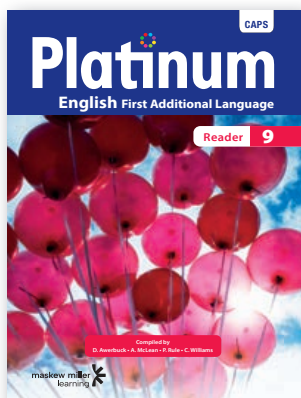
Read the figurative sentences below and select the correct literal meaning.

- 1 SHE HAS A LOT ON HER PLATE.**
A She is eating a big meal.
B She has many responsibilities.
- 2 THE TEST WAS A PIECE OF CAKE.**
A The test was very easy.
B The test was about a slice of cake.
- 3 I AM DROWNING IN HOMEWORK.**
A My homework is piled on me and I am being smothered by it.
B I have more homework than I can cope with.
- 4 HIS WORDS CUT DEEPER THAN A KNIFE.**
A His words were very painful.
B He used a knife to hurt someone.
- 5 THE CLASSROOM WAS A WALKING ZOO TODAY.**
A The classroom had wild animals.
B The students were very noisy and energetic.
- 6 SHE IS A WALKING DICTIONARY.**
A She has a very large vocabulary.
B She is carrying a load of educational books.
- 7 I HAVE BUTTER IN MY STOMACH.**
A I feel nervous or shy.
B There are actual butter in my stomach.
- 8 SHE FINALLY BROKE THE ICE AT THE PARTY.**
A She broke a piece of ice for her drink.
B She was the first to start a conversation at the party.
- 9 I AM ALL EARS.**
A I'm listening carefully.
B I have exceptionally large ears.
- 10 SHE IS UNDER THE WEATHER.**
A She feels sick.
B She is caught in the rain without an umbrella.

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THIS & VAT

IN SA, A TAX IS INCLUDED IN THE PRICE OF ANY GOODS YOU BUY IN A SHOP. THIS IS CALLED VALUE ADDED TAX AND IT IS 15% OF THE COST OF THE ITEM.

(An example would be when you buy an article of clothing for R115, R100 is for the shop and R15 is VAT.)

- In the service industry, you might be quoted for something and it will exclude the VAT.

GRAB YOUR CALCULATOR AND GO SHOPPING!

A

Thuli buys an expensive perfume for R958.00. How much of that amount is VAT?

R



B

Steve goes to the tuck shop for a fruit juice and snacks. He spends R58.00. If there was no VAT – what would he have spent?

R

C

Lenny buys a computer for R2 850.00. How much of the amount is VAT?

R

D

Ronnie visits a motorbike dealer and sees the bike of his dreams. The price of the bike (ex VAT) is R45 095.00. The dealer is offering a discount of 15%.

What will the actual price of the bike be?

R



E

Mary goes to a factory shop centre and buys the following items:
A top for R49.90 (ex VAT),
jeans for R129.00 (including VAT),
takkies for R158.50 (ex VAT).
What is the total amount she spends at the centre?

R



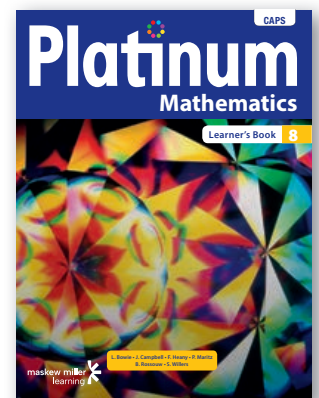
ANSWERS: A R143.70, B R49.30,
C R427.50, D R45 095.00, E R368.65

WHY DO WE HAVE VAT?

This is a type of tax that all people pay when they buy things. Clothes, electronics, and food. There are exceptions to some basic food stuffs in SA.

The businesses collect this money and provide it to the government where it is spent where it is needed.

It was introduced in SA in 1991 at 14% of the value of the goods and was increased to 15% in 2018.



GO FIGURE!



- A** **ONOMATOPOEIA:** imitates natural sounds
- B** **SIMILE:** compares two things using 'like' or 'as'
- C** **METAPHOR:** makes a direct comparison without using 'like' or 'as'
- D** **PERSONIFICATION:** gives human traits or emotions to non-human objects
- E** **OXYMORON:** pairs contradictory terms
- F** **IRONY:** highlights contrasts between expectations and reality

LOOK AT THE FOLLOWING SENTENCES AND SAY WHAT FIGURE OF SPEECH THEY ARE.

1 The alarm clock screamed at me to wake up. ☐

2 The classroom was a zoo during the break. ☐

3 The storm of emotions overwhelmed her. ☐

4 He has a heart of stone. ☐

5 The lifeguard, who had saved countless lives, drowned in a shallow pool. ☐

6 The old house groaned as the storm battered its walls. ☐

7 The bacon sizzled in the hot pan. ☐

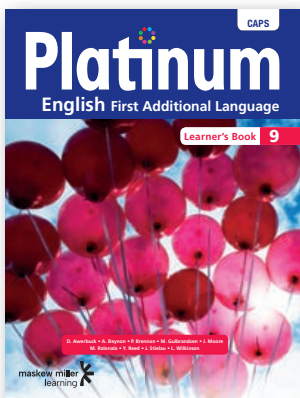
8 The room was as quiet as a graveyard at midnight. ☐

9 The small crowd gathered quietly at the park. ☐

10 Her smile was as bright as the sun. ☐

11 The cake was as light as a feather. ☐

12 The wind whispered secrets through the trees. ☐



AS QUICK AS A FLASH!

Lightning is static electric charge that builds up in clouds. A negative charge builds up in the clouds as a result of friction between the air and water particles in the clouds. When the potential energy (or stored energy) is large enough, it discharges towards the positively-charged Earth. The result ... FLASH!!

Lightning is one of nature's most recurrent and common spectacles. Around the world, there are over 3 000 000 flashes every day. That's around 44 strikes every second.

THE GOLDEN RULE

TO TELL HOW FAR AWAY A THUNDERSTORM IS, SIMPLY COUNT THE NUMBER OF SECONDS BETWEEN THE FLASH OF LIGHTNING AND THE BOOM OF THUNDER THAT FOLLOWS.

If it is 30 seconds or less, the thunderstorm is close enough to be dangerous – seek shelter.

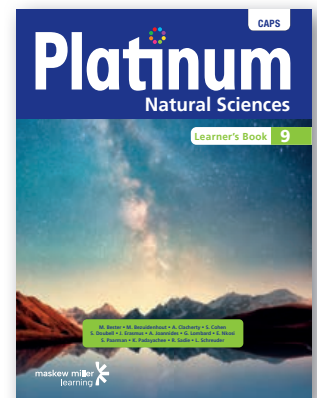
If you want to work out roughly how close it is – divide this number by three for the distance in kilometres.

KEEP SAFE!

- The safest place to be during a lightning storm is indoors.
- Keep away from windows and electrical equipment and avoid using a landline telephone.
- Using wireless devices such as cell phones or cordless phones indoors during a lightning storm is generally safe, but better to avoid using.
- Do not bath or shower during storms.
- If you are outside, try to find shelter in a closed building. Stay away from trees, metal fences or tall objects.
- Crouch down on the balls of your feet and keep your head and arms tucked in - make yourself as small as possible.
- Almost 90% of all lightning strike victims survive. The odds of being struck multiple times is even less, with the record being seven times in one lifetime.

TYPES OF STRIKES

- **Direct strike:** A cloud-to-ground lightning strike hits you or something you're holding, like a golf club or phone. This is the worst strike!
- **Side flash:** Lightning strikes something close to where you are standing and then jumps from that to you.
- **Contact potential:** While you're touching something, like a fence post or a tree, lightning strikes that object and the current travels from the object through the point of contact into your body.
- **Surge voltage:** While you're using some type of electrical appliance or a telephone, lightning strikes the source of power or network connected to the device and you receive a shock. This is the least dangerous as the electricity is dispersed elsewhere.



KNOW YOUR WORLD

**THERE ARE 3 FALSE STATEMENTS.
CAN YOU FIND THEM?**

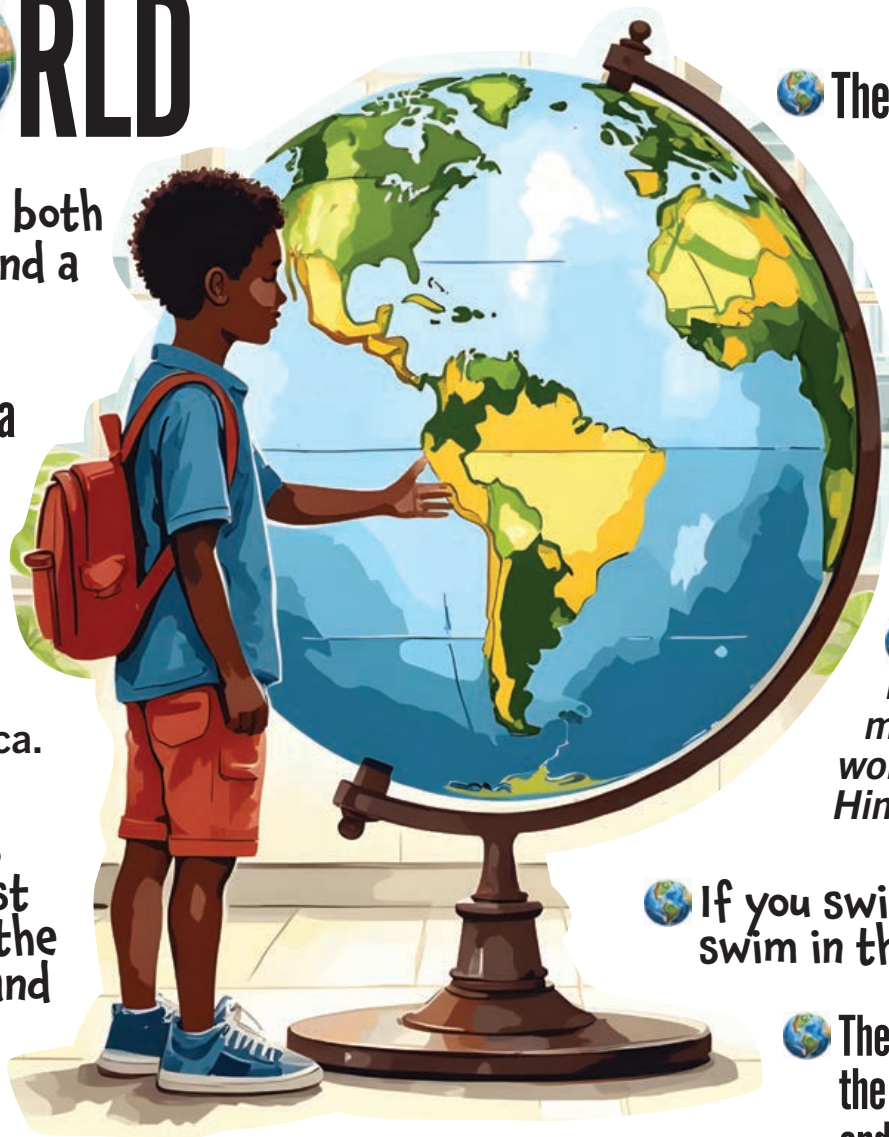
🌐 Australia is both a country and a continent.

🌐 South Africa borders Zambia.

🌐 Brazil is the largest country in South America.

🌐 Russia is the largest country in the world by land area.

🌐 Los Angeles is on the East Coast of the USA.



🌐 The Nile is the longest river in the world.

🌐 South Africa is the southernmost country on the African continent.

🌐 The Gobi Desert is in the USA.

🌐 Mount Everest is the highest mountain in the world and is in the Himalayas.

🌐 If you swim in Durban you swim in the Indian ocean.

🌐 The Suez Canal links the Mediterranean Sea and the Red Sea.

🌐 The Great Barrier Reef is located on the northeast coast of Australia.

🌐 A place called Timbuktoo exists.

🌐 Tasmania is to the North of Australia.

🌐 Turkey is in North Africa.

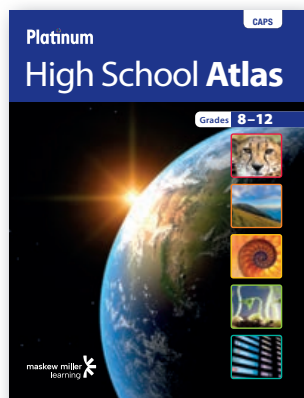
🌐 New Zealand's North and South Islands are separated by the Cook Strait.

🌐 Table Mountain is one of the New 7 Wonders of Nature.

🌐 Ireland is closer to the North Pole than Mexico.

ANSWERS:

Turkey is in Europe. Los Angeles is on the West coast of the USA. The Gobi Desert is in China.



THE RIGHT CHOICES

To be a savvy shopper, you should compare the cost per unit to ensure you make the most cost-effective decision.



SE° HOW GO^ D A GROCERY SHOP^ ER YOU ARE!

WHAT IS THE BEST BUY? Tick the right answer 

LIP ICE

- A) Single **R26.95**
- B) 3 Pack **R74.00**
- C) Buy 2 get 1 **FREE**

DEODORANT

- A) Get 2 deodorants for the price of 1 **R45.00** each
- B) Buy 2 for **R70.00** get the third 1 **FREE**

TOILET PAPER

- A) 4 Pack **R46.60**
- B) 9 Pack **R73.99**
- C) Single **R9.99**
- D) 18 Pack **R118.00**

CHOCOLATE SLABS

- A) 2 Slabs 80g **R42.90** each
- B) 1 Slab 150g **R37.50** each
- C) 3 Slabs 150g + 2 Slabs 80g **R85.00**

CHICKEN POLONY

- A) Whole 500g **R56.99**
- B) Whole 1kg **R78.99**
- C) Sliced per 100g **R6.50**

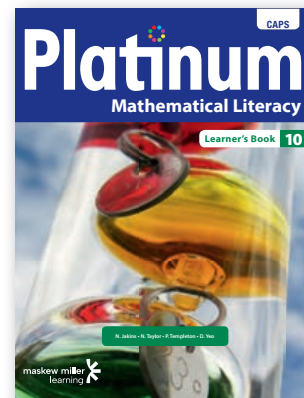


SCONE MIX

- A) 500g Mix **R26.95**
- B) 1kg Mix **R74.00**

SHAMPOO

- A) 1 litre bottle **R99.99**
- B) 500ml bottle **R45.99**
- C) 250ml bottle **R39.49**



MOTORBIKE MATHS

60



SPEED, DISTANCE AND TIME

Because we are always in a rush and time is precious, one of the most common formulas that you will work with in real life involves speed, time and distance.

The formulae that we use to calculate distance, speed and time are:

$$\text{SPEED} = \frac{\text{distance}}{\text{time}}$$

$$\text{DISTANCE} = \text{speed} \times \text{time}$$

$$\text{TIME} = \frac{\text{distance}}{\text{speed}}$$



GRAB YOUR CRASH HELMET — HERE ARE SOME FUN SPEED-DISTANCE-TIME QUESTIONS

1 RACE TO THE BURGER JOINT

Liam and Jay decide to race to their favourite burger spot 15 km away. Liam rides at 60 km/h and Jay, being a show-o°, goes at 75 km/h.

Q: Who gets there first and by how many minutes?

A:

3 LATE FOR SCHOOL AGAIN

Your school is 10 km away, and you left home 15 minutes late. You normally ride at 40 km/h, but today you push it to 60 km/h.

Q: How many minutes late or early will you be compared to your usual arrival time?

A:



2 ESCAPE THE RAIN

Ayanda is riding her bike at 50 km/h when it suddenly starts raining. There is a petrol station 5 km ahead.

Q: How long (in minutes) will it take her to get there?

A:



4 FUEL CHALLENGE

You ride 90 km in 1.5 hours on a long weekend trip.

Q: What's your average speed?

A:

5 THE DRAG RACE

Two bikers start a 400-metre drag race. One accelerates fast and maintains 100 km/h. The other takes o° slower but catches up at 120 km/h.

Q: How many seconds does it take the faster biker to finish the race?

A:

(Helpful tip: Convert speed from km/h to m/s)

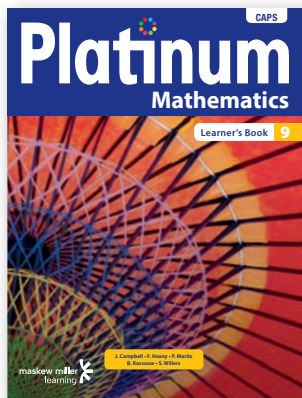
ANSWERS:

1 Jay gets there first by three minutes. 2 Six minutes. 3 You'll arrive five minutes earlier than usual. 4 60 km/h. 5 The faster biker finishes in about 14.4 seconds.

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SAME SAME & DIFFERENT

(synonyms & antonyms)

A **THESAURUS** is an excellent resource for expanding your **VOCAB**. A **thesaurus** gives both synonyms and antonyms of words.

A THESAURUS ENTRY FOR THE OVER-USED WORD 'NICE':

SYNONYMS:

agreeable attractive alluring
charming delightful good
kind likeable pleasant
polite tasty well-mannered
subtle delicate discriminating
fine precise exact accurate

ANTONYMS:

unpleasant disagreeable
unkind unlikeable
impolite tasteless
bad-mannered indelicate
undiscriminating inexact
imprecise inaccurate



REPLACE 'NICE' IN THIS PARAGRAPH WITH SUITABLE WORDS FROM THE THESAURUS ENTRY.

I met my (nice) _____ girlfriend at the (nice) _____ mall.
We had a (nice) _____ time shopping and then saw a (nice) _____ movie.
Afterwards we ate at a (nice) _____ pizza place and ate (nice) _____ pizza.
Hers was (nicer) _____ than mine.
I like my girlfriend because she is so (nice) _____. She has a (nice) _____
voice and very, very (nice) _____ eyes.

STOP,
SCAN & STUDY!

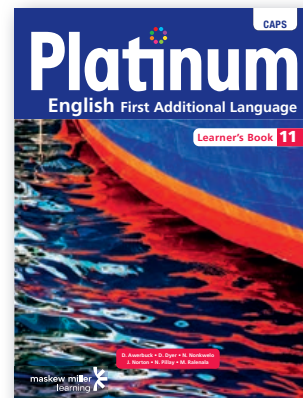


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SUPPLY AN ANTONYM AND A SYNONYM FOR EACH OF THE FOLLOWING WORDS.

	ANTONYM	SYNONYMS
jealous	_____	_____
hopeful	_____	_____
confident	_____	_____
miserable	_____	_____
honest	_____	_____



A GOAL without a plan is just a wish.

GOALS ARE USEFUL BECAUSE THEY:

- give you direction by helping you move from where you are to where you want to be
- help you take charge of your future and allow you to plan
- are personal and unique to YOU

Goal-setting is a life skill. Other life skills that will help you set and achieve goals include: problem-solving, time management, reflection and evaluation, self management.

TYPES OF GOALS:

SHORT-TERM GOALS

These can be achieved in a short time, such as a week, a month or a few months.

MEDIUM-TERM GOALS

These can be achieved in one to three years.

LONG-TERM GOALS

These are usually life goals that you aim to achieve in more than three years.

- Usually one sets short-term and medium-term goals to help achieve a long-term goal eg: if a long-term goal is to be a professional sportsperson, one would set a short-term goal of getting into the school team this year, and perhaps then playing for your region in the next year.

DREAM BIG... BUT PLAN IT AND TAKE ACTION!

A GOAL IS SOMETHING THAT YOU TRY TO ACHIEVE. Setting goals helps you to live your life to the fullest. Goals help you focus. They motivate and inspire you. A goal is different from a wish or a dream, because you take action. You set the goal, and then take action to achieve it.



BE SMART. Follow the SMART method when you set your goals.

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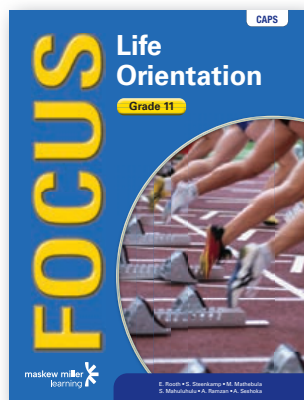
SPECIFIC: Be specific – be sure it is not just a general wish.

MEASURABLE: Measure each step of your progress.

ACHIEVABLE: Make sure it is attainable.

REALISTIC: Make it within your reach.

TIMELY: Set a time frame.



SELF ANALYSIS

Regularly think about your actions and behaviour. Be honest with yourself about where you behaved well and where you didn't.

Improve **YOUR RELATIONSHIPS** by being aware of some simple rules.

HONESTY AND INTEGRITY:

Always be honest and truthful in all your dealings with everyone. Act with sincerity but remain true to your values. Sometimes it will be challenging!

GRATITUDE

Always be grateful. Appreciate the positive things in your life. Thank people if they contribute to your wellbeing and happiness.

CURIOSITY

Stay curious and be interested in other people. Be open to other ways of thinking and new ideas. This helps foster friendship and personal and intellectual growth.

EMOTIONAL CONTROL

Manage your emotions effectively. Recognise other people's emotional needs and respond with empathy. It is not always about YOU!

BECOME A BETTER PERSON

EMPATHY

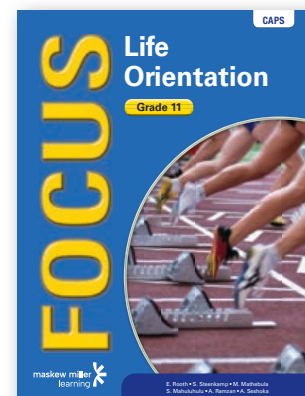
Regularly put yourself in others' shoes. Try and understand different perspectives. Be kind and compassionate.

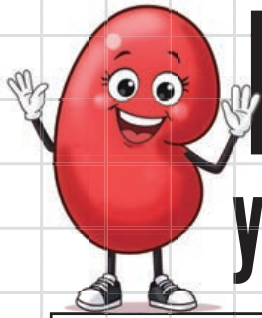
POSITIVITY

Focus on solutions rather than problems. Approach people and relationships with a great attitude and people will respond accordingly.

PATIENCE

Patience when dealing with people always pays off.





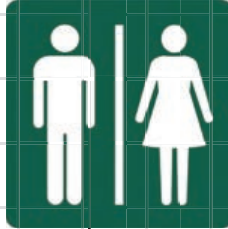
KIDNEYS – your filter system

WHERE ARE YOUR KIDNEYS?

To feel your kidneys, place your hands on your hips with your thumbs pointing backwards. Your kidneys are just under your thumbs!

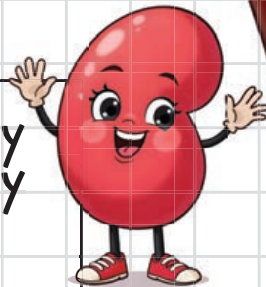
A KIDNEYS MAIN FUNCTION IS TO REMOVE WASTE PRODUCTS FROM THE BLO.D.

This waste forms urine and drains into the bladder. It is temporarily stored in the bladder and then leaves the body through the urethra.



Kidneys are roughly the size of a standard computer mouse or a small cellphone.

The right kidney is slightly lower than the left kidney because the liver is positioned just above it.

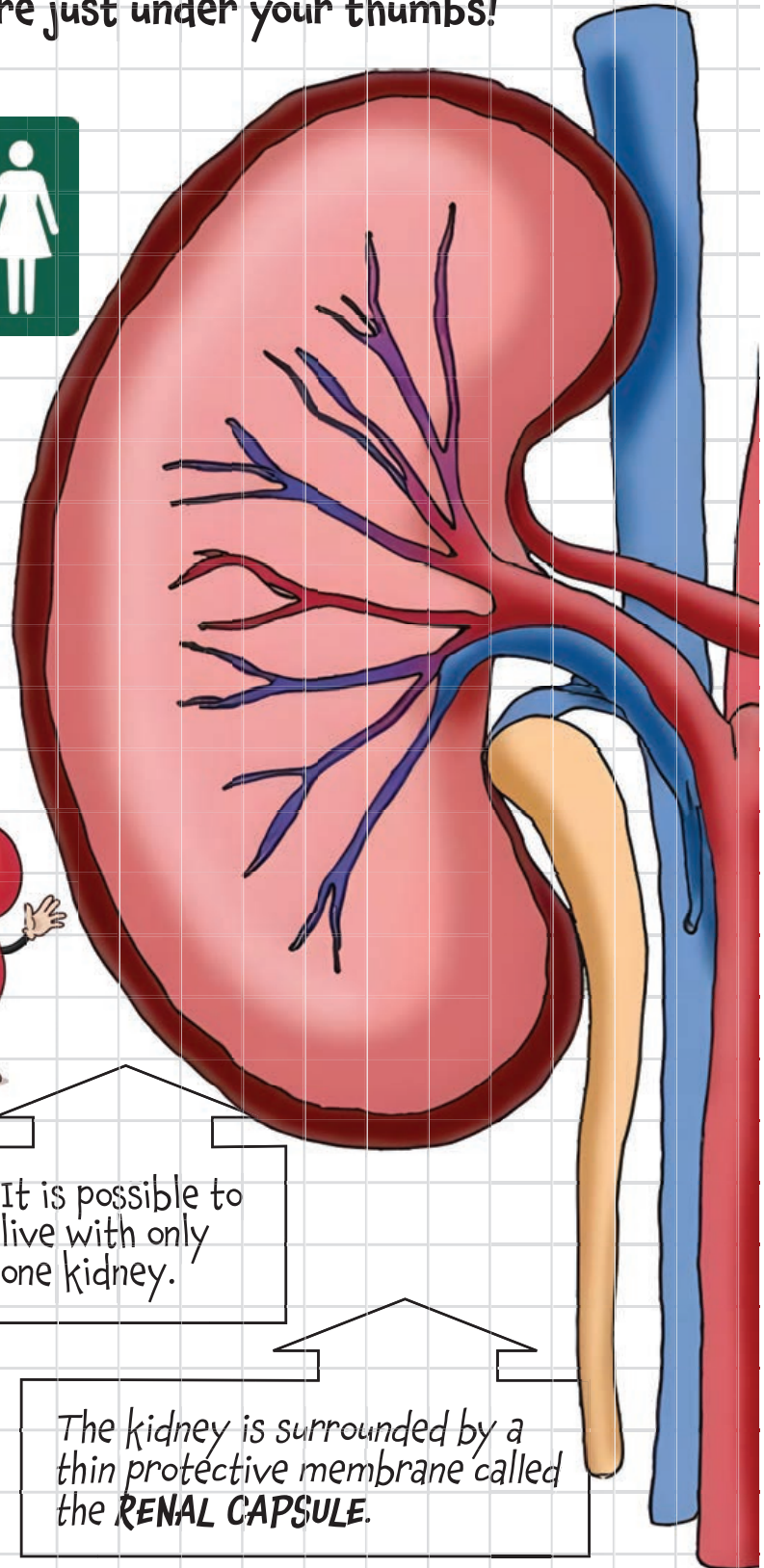


Kidneys filter around 180 litres of blood every day.

Kidneys control the production of red blood cells and release hormones that regulate your blood pressure.

It is possible to live with only one kidney.

The kidney is surrounded by a thin protective membrane called the **RENAL CAPSULE**.

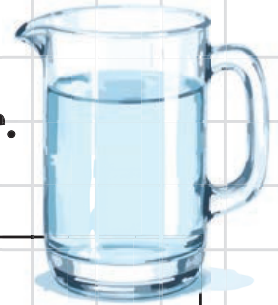


The blood flow in kidneys is higher than the blood flow in your heart, liver and brain.



Kidneys form part of the urinary system in your body.

Healthy kidneys need a lot of water.
Make sure you drink plenty.

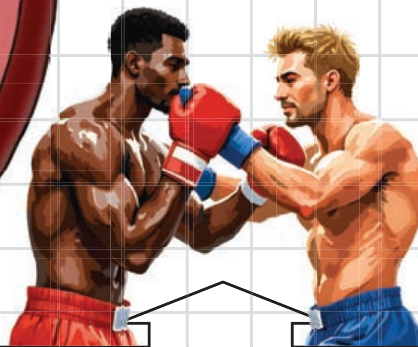


THE NEED FOR WATER

The colour of urine reveals hydration needs. Dark yellow urine implies that the body needs rehydration, whereas light yellow urine indicates that the body is sufficiently hydrated. (Some types of medicine may influence the urine colour – such as vitamin B or vitamin B2.)



The bladder can hold between 600 to 800 ml of urine.

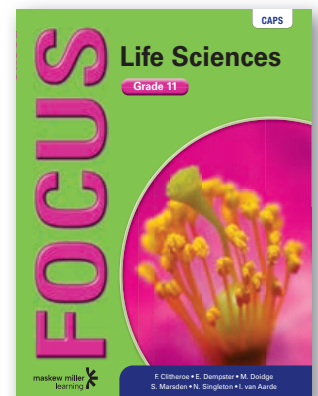


A **kidney punch** in boxing, refers to a strike aimed at the kidney area, located on the lower back, typically just below the rib cage. Because the kidneys are vital organs responsible for filtering waste from the blood, a punch to this area can cause severe injury, including bruising, laceration, or even kidney failure in extreme cases.

THIS TYPE OF PUNCH IS CONSIDERED ILLEGAL IN BOXING.



Scan or add
+27 60 044 3816 to your phone.



Get it WRITE

In anyone's life today, the difference between formal and informal writing comes down to purpose, audience and tone.

We are required to be able to communicate in both!

FORMAL vs INFORMAL WRITING

FORMAL WRITING:

- Used in school essays, emails to teachers, job applications or official documents.
- Follows proper grammar, punctuation, and structure (no slang, contractions, or abbreviations).
- **EXAMPLE:** *According to recent studies, social media usage has a significant impact on teenagers' ways of communication. It is essential to establish a balance between online and offline activities.*

INFORMAL WRITING:

- Used in text messages, social media posts and casual conversations with friends.
- Includes slang, emojis, abbreviations and a relaxed tone.
- More personal and breaks the conventions of grammar rules.
- **EXAMPLE:** *'hey, idk how 2 say this but i rlly need 2 talk. u there? been thinkin a lot abt wht u said yday & ngl, it hurt. ik u didnt mean it that way but still :/ can we pls just talk & clear this up? lmk.'*

KEY DIFFERENCE:

Formal writing is structured and professional, while informal writing is casual and personal. Knowing when to use each is important – texting your friend, 'Hey, wassup?' is fine, but you wouldn't email a teacher that way!

*YO TEACH!
IMHO, I rlly messed up
& I'm sry 4 my bhvr in clas~.
IDK what I was thinking, but I shd hv been
more respcftfl. Tbh, U deserve better frm me.
Plz kno it won't hpn again. I'll mk sure 2 stay
focsd & show U the rspct U dserve. Thx 4 ur
patience & 4 being an awsm teacher.*

REWRITE THIS LETTER FORMALLY



STOP,
SCAN & STUDY!



Scan the
QR code & get
subject study
assistance!



TIME ZONES



THE EARTH IS DIVIDED INTO 24 TIME ZONES, EACH GENERALLY ONE HOUR APART. THIS MEANS THAT WHEN IT'S NOON (12 PM) IN ONE PART OF THE WORLD, IT MIGHT BE EARLY MORNING, EVENING, OR EVEN A DIFFERENT DAY, IN ANOTHER PART.

WHAT'S THE TIME WHERE YOU ARE?



Time zones exist because the Earth is round and spins on its axis. This rotation causes different parts of the world to experience sunlight at different times. When one side of the Earth is facing the Sun, it's daytime there, while the opposite side is in darkness, having nighttime.

JAY HAS FAMILY ALL OVER THE WORLD. HE LIKES TO KEEP IN TOUCH WITH HIS COUSINS AND SEND THEM VOICE NOTES. BUT HE NEEDS TO MAKE SURE THAT THEY ARE AWAKE WHEN HE CONTACTS THEM.



MELBOURNE
+6 hours



PORT LOUIS
+2 hours



NEW YORK
-7 hours



SINGAPORE
+6 hours



WELLINGTON
NZ +11 hours

HAPPY BIRTHDAY, CUZ!

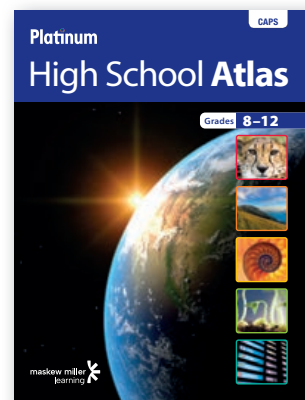
It is cousin Mel's birthday in Singapore. If Jay wants to text her at 9:00 am – what time in SA must he send the text?

Tony is in Australia. If it is 3 in the afternoon in SA – what time is it in Melbourne?

It's cousin Mia's birthday in Wellington. What time must he phone if he wants to speak to her at 6am?

Jay's favourite cousin is turning 16 and lives in Mauritius. He wants to text him at 7:00am. What time is it in Port Louis?

Cousin Peter is in The Big Apple – what is the time there if it is midday in Cape Town?



A

A	M	N	A	L	G	A	E	P	M	A	D
B	U	Z	A	S	T	R	O	N	O	M	Y
S	I	S	A	V	Z	U	A	K	H	K	K
O	N	W	M	E	E	M	X	X	C	A	E
R	I	A	P	R	A	I	L	K	B	S	L
B	M	D	S	N	G	N	E	S	E	T	M
Y	U	A	V	R	L	I	O	W	O	E	K
N	L	P	A	U	A	U	O	E	N	R	R
J	A	T	L	G	B	M	M	Q	F	O	V
Y	T	A	N	T	I	B	I	O	T	I	C
O	S	A	I	R	T	I	G	H	T	D	R
H	L	F	A	L	T	I	T	U	D	E	E

A**WORDSEARCH**

(All the words begin with the letter A)

CLUES:

- To soak up (6)
- To change to suit the environment (5)
- To not allow air to get in (8)
- Moisture loving green plant (5)
- The height of something measured from sea level (8)
- A silvery grey lightweight metal that makes foil (9)
- To measure electric current
- A drug used to kill micro-organisms in the human body (10)
- A rocky object in space that moves around the sun (8)
- The study of the universe (9)
- The rod that goes through the centre of a wheel (4)

wordsearch**WORK OUT THE WORDS FROM THE CLUES, THEN FIND THEM.****B****WORDSEARCH**

(All the words begin with the letter B.)

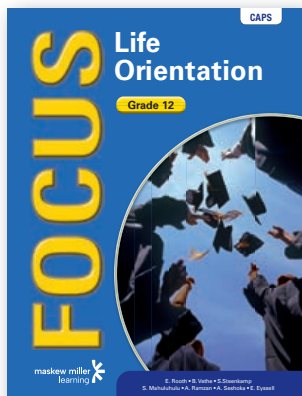
CLUES:

- An instrument that measures the pressure of the atmosphere (9)
- All parts of the earth where living organisms exist (9)
- The act of being born (5)
- The study of plants (6)
- A shiny yellowish/brown metal (6)
- Hard, but can shatter easily (7)
- The process of taking in air through the nose and mouth (9)
- The soft organ inside the head (5)

O	R	Y	W	B	O	T	A	N	Y
P	Q	M	B	I	R	T	H	H	U
W	G	T	B	R	A	I	N	U	S
G	B	A	R	O	M	E	T	E	R
L	D	U	N	I	E	A	E	J	K
S	B	I	O	S	P	H	E	R	E
Y	Y	B	R	O	N	Z	E	R	C
H	B	R	I	T	T	L	E	V	S
G	C	T	V	A	P	M	I	E	I
B	R	E	A	T	H	I	N	G	H

B**SOLUTIONS:**

A	M	N	A	L	G	A	E	P	M	A	D
B	U	Z	A	S	T	R	O	N	O	M	Y
S	I	S	A	V	Z	U	A	K	H	K	K
O	N	W	M	E	E	M	X	X	C	A	E
R	I	A	P	R	A	I	L	K	B	S	L
B	M	D	S	N	G	N	E	S	E	T	M
Y	U	A	V	R	L	I	O	W	O	E	K
N	L	P	A	U	A	U	O	E	N	R	R
J	A	T	L	G	B	M	M	Q	F	O	V
Y	T	A	N	T	I	B	I	O	T	I	C
O	S	A	I	R	T	I	G	H	T	D	R
H	L	F	A	L	T	I	T	U	D	E	E



MANAGING PEOPLE?

YES OR NO

A manager's role in a business—whether small or large—is to plan, organise, lead and control the resources of the organisation to achieve its goals effectively and efficiently.

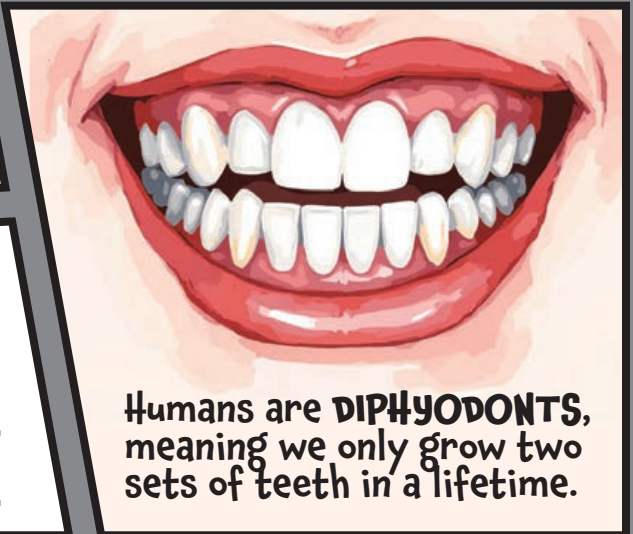
CHECK OUT WHAT IT INVOLVES – then do the test to see if you have what it takes.





TEETH ARE NOT BONES.
They are enamel, dentin, pulp and cementum, not living bone tissue.

THE TOOTH TRUTH



Humans are **DIPHYODONTS**, meaning we only grow two sets of teeth in a lifetime.

ENAMEL IS THE HARDEST SUBSTANCE IN THE HUMAN BODY!



EVERYONE HAS A UNIQUE DENTAL PRINT.
Like fingerprints, teeth and bite patterns are unique. That's why forensics use dental records for identification.

Teeth can't heal themselves, but they can get stronger. Enamel doesn't regenerate but it can remineralise slightly with fluoride, calcium, and phosphate in toothpaste.



Teeth can reveal diet and health history. Scientists can study ancient teeth to learn about a person's age, diet, diseases and even stress levels from decades or centuries ago.

There are more bacteria in your mouth than people on earth.



STOP, SCAN & STUDY!



Scan the QR code & get subject study assistance!



WISDOM TEETH

Wisdom teeth are the third set of molars, the last teeth to come in, usually between the ages of 17 and 25 (An age associated with maturity and 'wisdom').

WHY DO WE HAVE WISDOM TEETH?

Wisdom teeth come from our ancestors who had larger jaws and needed extra molars to chew tough, raw foods like roots, nuts and meat.

Nowadays, our diets are softer, and our jaws have become smaller over time – so we often don't have enough room for these extra teeth.



NOT EVERYONE GETS THEM

Not everyone needs their wisdom teeth removed. Some people live perfectly fine with them.



Let's have a
BAL~!

The grade 9s want to have a formal **VALENTINE'S BALL** to raise funds to upgrade their common room. For fire and safety reasons, the school hall they want to hold it in, can only take 400 people. Their target is to raise R20 000.

EXPENSES:

MUSIC: An excellent DJ has offered their services at a reduced rate of R5 000 for the evening, plus the lighting.

DÉCOR: Cardboard and paint: R600

Paper tablecloths and napkins at R10 a pack of 10

100 balloons at R10 a packet of 10

TICKETS:

Printing: 400 tickets at R100 per 10

HIRING OF TABLES:

8 seater tables cost R60 each
How many tables are needed?

FOOD: Catering per head is R120

TOTAL COST: What is the total expense for 400 people?

PERMUTATIONS:

A If all the tickets are sold at R300 for a couple, what will the takings be?

How much profit will they make?

B If all the tickets are sold at R375 per couple, what will the takings be?

How much profit will they make?

C If they sell each ticket individually at R200 how much money will they take in?

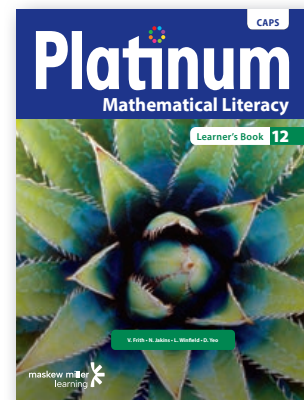
How much profit will they make?

D If they sell each ticket individually at R250 how much money will they take in?

How much profit will they make?



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