

# GROW SMART

Practise Edition 2019

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PROPERTIES

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## PRACTISE EDITION





# DEAR GROWSMARTER

Welcome to the Growsmart Practise Edition for 2019! Are you ready to take your knowledge to the next level? Then get started!

As you work your way through the newspaper, you will get a taste of what to expect for the rest of the year. You will discover tips and activities to improve your creative writing skills. The mathematical problems will help sharpen your brain!

You might also discover that you have a hidden talent for debating. We introduce you to this fun way of learning about the world and making new friends. Don't forget to try Professor Thandi's fun science experiment! Because who wouldn't want to share secret messages with their friends?

Have fun practising for the upcoming Growsmart competitions!

Until next time,  
The Growsmart Team

## MATHS 1

CALCULATE THE FOLLOWING.  
YOU MAY USE ANY STRATEGY.

1.  $309\,241 - 49\,635 =$  \_\_\_\_\_
2.  $5\,432 \times 803 =$  \_\_\_\_\_
3.  $2,34 \times 0,2 + 10 =$  \_\_\_\_\_
4.  $6 \times 11 - 19 + 25 \div 5 =$  \_\_\_\_\_
5.  $42\,152 + 28\,945 + 76\,361 =$  \_\_\_\_\_
6.  $87\,546 - 43\,968 =$  \_\_\_\_\_
7.  $3\,107 \times 35 =$  \_\_\_\_\_
8.  $7\,140 \div 15 =$  \_\_\_\_\_
9.  $4\frac{3}{8} + 2\frac{1}{8} =$  \_\_\_\_\_
10.  $\frac{2}{5}$  of  $300 =$  \_\_\_\_\_
11.  $5\frac{3}{5} - 2\frac{1}{5} =$  \_\_\_\_\_
12.  $59,5 + 25,5 =$  \_\_\_\_\_
13.  $7\,000 + 456 + 98\,734 =$  \_\_\_\_\_
14.  $78\,954 - 4\,563 =$  \_\_\_\_\_
15.  $456 \times 64 =$  \_\_\_\_\_
16.  $3\frac{4}{5} + 5\frac{3}{5} =$  \_\_\_\_\_
17.  $5\frac{4}{6} - 3\frac{2}{6} =$  \_\_\_\_\_
18.  $294 \div 21 =$  \_\_\_\_\_
19.  $11\,523 + 21\,275 + 7\,356 =$  \_\_\_\_\_
20.  $69\,157 - 17\,339 =$  \_\_\_\_\_

## MATHS 2

CALCULATE THE FOLLOWING.  
YOU MAY USE ANY STRATEGY.

1.  $976 \times 54 =$  \_\_\_\_\_
2.  $7\,777 \div 7 =$  \_\_\_\_\_
3.  $6\frac{1}{7} + 2\frac{2}{7} =$  \_\_\_\_\_
4.  $3\frac{3}{5} - 1\frac{1}{5} =$  \_\_\_\_\_
5.  $43\,489 + 345\,987 + 307 =$  \_\_\_\_\_
6.  $495\,089 - 85\,847 =$  \_\_\_\_\_
7.  $3\,097 \times 249 =$  \_\_\_\_\_
8.  $4\frac{1}{8} + 3\frac{3}{8} =$  \_\_\_\_\_
9.  $20\%$  of  $400 =$  \_\_\_\_\_
10.  $11,5 - 1,5 + 10,5 =$  \_\_\_\_\_
11.  $0 \times (18 - 3) + (10 \div 2) - 2 =$  \_\_\_\_\_
12.  $787 - 614 =$  \_\_\_\_\_
13.  $(6 \times 10\,000) + (8 \times 1\,000) + (5 \times 100) + (3 \times 1) =$  \_\_\_\_\_
14.  $84\,509 + 33\,095 =$  \_\_\_\_\_
15.  $96\,974 - 5\,381 =$  \_\_\_\_\_
16.  $547 \times 42 =$  \_\_\_\_\_
17.  $738 \div 18 =$  \_\_\_\_\_
18.  $12\,470 + 5\,300 \div 10 =$  \_\_\_\_\_
19.  $6 - 4\frac{3}{4} =$  \_\_\_\_\_
20.  $17 \times 0 + 41 =$  \_\_\_\_\_

# MATHS 3

ANSWER AS MANY AS POSSIBLE.

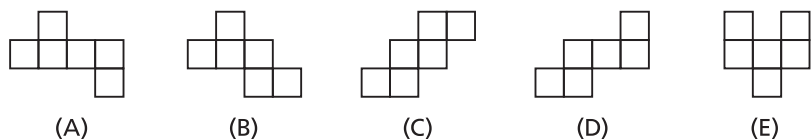
- $387 \times 24 =$  \_\_\_\_\_
- $36 - 24 \div 6 =$  \_\_\_\_\_
- $643\,189 + 12\,387 + 4\,230 =$  \_\_\_\_\_
- $976\,453 - 68\,397 =$  \_\_\_\_\_
- $6\,907 \times 28 =$  \_\_\_\_\_
- $7,4 + 0,82 =$  \_\_\_\_\_
- $7\frac{3}{5} + 4\frac{4}{5} =$  \_\_\_\_\_
- $4\frac{4}{11} - 2\frac{7}{11} =$  \_\_\_\_\_
- $\frac{3}{4}$  of 120 = \_\_\_\_\_
- $1\,643\,884 + 262\,206 =$  \_\_\_\_\_
- $9300 \div 30 =$  \_\_\_\_\_
- $315 \times 210 =$  \_\_\_\_\_
- $2\,500 \times 40 + 1 =$  \_\_\_\_\_
- $\frac{3}{5} \times 300 =$  \_\_\_\_\_
- $1,5 \div 3 =$  \_\_\_\_\_
- $100 - 12 \div (8 + 4) =$  \_\_\_\_\_
- $567,38 - 197,2 =$  \_\_\_\_\_
- $456\,954 + 364\,637 =$  \_\_\_\_\_
- $520\,834 - 634 =$  \_\_\_\_\_
- $2\,100 \times 25 =$  \_\_\_\_\_
- $3\,375 \div 125 =$  \_\_\_\_\_
- $3\frac{3}{4} + 5\frac{1}{2} - 3\frac{3}{8} =$  \_\_\_\_\_
- $214 \div 2 \times (14 - 9) =$  \_\_\_\_\_
- $40 + 200 \times 200 =$  \_\_\_\_\_
- $\frac{4}{5} \times 3 =$  \_\_\_\_\_
- $324 + 17,5 - 6,5 =$  \_\_\_\_\_
- $0,048 \div 8 =$  \_\_\_\_\_
- $1\,678 + 8\,694 =$  \_\_\_\_\_
- $3\,784 - 1\,231 =$  \_\_\_\_\_
- $5\,234 + 41\,423 + 52\,312 =$  \_\_\_\_\_

Answers: 1. 9 288, 2. 32, 3. 659 806, 4. 908 056, 5. 193 396, 6. 8, 7. 12, 8. 1, 9. 90, 10. 1 906 090, 11. 310, 12. 65 150, 13. 10 0001, 14. 180 15. 0,5, 16. 99, 17. 370, 18. 821 591, 19. 520 200, 20. 52 500, 21. 27, 22. 5, 23. 535, 24. 40 040, 25. 5, 26. 335, 27. 0,006, 28. 10 372, 29. 2 553, 30. 98 969

# MATHS 4

SEE IF YOU CAN SOLVE EACH PROBLEM.

- Which one of the following figures below cannot be folded along the lines to form a cube?



- The symbol represents a number. What value of  $\diamond$  makes this sentence true?

$$\frac{\diamond}{2} = \frac{32}{\diamond}$$

(A) 4 (B) 64 (C) 8 (D) 17 (E) 16

- The numbers in the pattern 2, 7, 12, 17, 22... increase by 5. The numbers in the pattern 3, 10, 17, 24, 31... increase by 7. The number 17 occurs in both patterns. If the two patterns are continued, what is the next number that will be seen in both patterns?

(A) 17 (B) 27 (C) 38 (D) 42 (E) 52

- If we place dice side by side in a row on a table, only some of the faces are visible: With 2 dice in the row 8 faces are visible; with 3 dice in the row 11 faces are visible, etc. If 75 dice are placed in a row, how many faces will be visible?



(A) 75 (B) 227 (C) 225 (D) 300 (E) 275

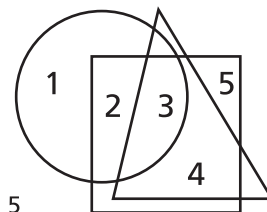
- A wooden cube, 2 cm long on each side, has a mass of 100 grams. Another cube of the same wood is 6 cm long on each side. What is its mass?

(A) 1 000 g (B) 2 700 g (C) 800 g (D) 900 g (E) 300 g

- 1st row: 1 dot  
2nd row: 3 dots  
3rd row: 5 dots  
4th row: 7 dots

How many dots would be in the 7th row?  
(A) 7 (B) 10 (C) 11 (D) 13 (E) 15

- Which number is in the square and the circle but is not in the triangle?



(A) 1 (B) 2 (C) 3 (D) 4 (E) 5

- The sketch shows the first three patterns in the sequence that John is building with coins. How many coins will he need for the fiftieth pattern in the sequence?



(A) 140 (B) 150 (C) 153 (D) 155 (E) 160

- Penny has twice as many coins as Alex. If Penny gives Alex four coins, they have the same number of coins. How many coins do they have in the beginning?

(A) 8 (B) 12 (C) 16 (D) 18 (E) 24

- How many four-digit numbers are there in which the sum of the digits is 4?

(A) 17 (B) 16 (C) 18 (D) 19 (E) 20

Answers: 1. E, 2. C, 3. E, 4. B, 5. B, 6. D, 7. B, 8. B, 9. E, 10. E

# BEFORE YOU SPEAK YOUR MIND

Your first debate can seem scary and intimidating. That's okay! No debater in the history of debating sounded like a professional when they started. It's important to remember the main goal of debating: to learn and understand the world around you. This means that winning or losing is not the end goal.

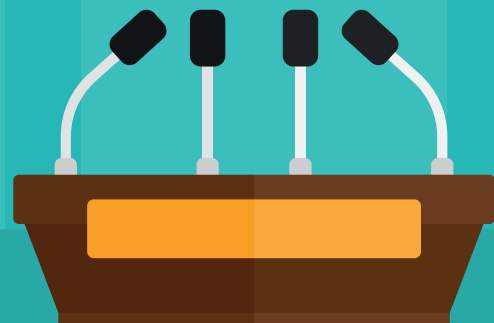
When you debate, you get the chance to speak to other debaters about topics that are interesting and relevant to you. Use these opportunities to learn new ways of thinking. Of course, everyone prefers to be a winner. But you can often learn more by losing than you can by winning. If you lose, you can always try again. Here are some tips to prepare you for your first debate:

1. Read or speak to people about the topic. If you can understand the idea behind the topic, you can speak and debate about it with more confidence.
2. Make sure everyone in the team understands the topic in the same way. Not only will this make your team seem clearer, but it will also help you understand the topic better.
3. Practise your speech. When you know what you are going to say, you will be more confident.
4. Understand the order of your arguments. It's important to present your

arguments in a way that makes sense (we share more on this in the article below). Think of it as telling a story. You can't begin with the end.

5. Remember that debating is not only about winning. It's all right to lose your first debate but whether you win or lose, make sure to talk to your opponents afterwards. Not only will you understand why you lost or won better, but you might even make a new friend!

Debating is a fun way to learn about the world around you and it will teach you valuable lessons as you grow up. Many good debaters started where you are now. If you work hard and try your best, you could become one of the best debaters!



## WHAT IS YOUR PLAN OF ACTION?

In debating, the **strategy** is your plan of action. It involves two things:

1. The structure and timing of your speech;
2. Understanding your argument and your opposition's argument.

### STRUCTURE AND TIMING

During your debate, you have 5 minutes to present your argument to the judges and audience (no pressure!). For the reply speech, you have only 3 minutes. Structure your speech in such a way that it makes sense and that you mention your most important points first. Also

make sure that you don't have too much to say or not enough.

### UNDERSTANDING BOTH SIDES OF THE ARGUMENT

If you understand your opposition's argument, you can prepare for the right response. Think of the important things the other team has to prove in their argument. How will you respond?

*"If you can't explain it simply, you don't understand it well enough."*

**Albert Einstein**

### REMEMBER THESE WORDS?

**MOTION:** The motion refers to the topic of the debate. Motions can start with the words: "This house believes that..." or "This house would..."

**REBUTTAL:** A reply that intends to ask questions about the opposing team's argument.

**PROPOSITION:** This team has to agree with the topic and argue for it.

**OPPOSITION:** This team has to disagree with the topic and argue against it.



# IT IS ALL ABOUT WHAT YOU SAY...

In a debate, **content** is about what arguments you use and how reasonable, relevant and realistic they are. Content is also about the quality of your rebuttal and your ability to defeat the arguments from the opposing team. Your content should show that you understand the main issues in the debate.

When you understand the main issues, you can provide the strongest arguments in support of these issues or against them. Good content



means your arguments are persuasive and your speech is compelling.

When you prepare for your speech, think about the different groups of people the motion will affect. How will it affect your school, your community or the country? Does the motion solve a problem? If not, why? Let these questions guide your content.

Remember, your argument must always be logical. Use clear explanations and examples. Start your speech with the strongest and most relevant arguments. Writing a speech is almost like writing a story – your speech should also have a beginning, middle and end.

In the beginning, briefly tell the judge what your argument is about. In the middle, explain the key points of your argument. Make use of examples. The end is a conclusion of what the point of the argument is.

Keep your argument as short as possible with a focus on your most important points. After every argument in your speech, tell the judge what you are trying to prove with the argument.

Your explanation should show why your arguments are the strongest in the debate. Remember not to contradict your arguments. That means don't say one thing and then say the complete opposite.

## ...AND HOW YOU SAY IT

**Style** in a debate refers to the way you speak. There are many different ways to have a good style. This means not one style is considered the best or most appropriate.

When speaking, it's important that you feel comfortable with the way you speak and that you can explain yourself in such a way that your fellow debaters and the judges can understand.

You won't lose points for things such as having an accent or speaking impairment. Just make sure you deliver your arguments persuasively in whichever way you choose. There are a few general ideas to keep in mind if you want to improve the impact of your speech.

### GOOD STYLE INVOLVES THREE THINGS:

1. good use of your voice;

2. good use of gestures or hand movements;
3. your ability to engage with your audience.

Use these three elements to successfully improve your speech and the debate as a whole. If you've found a way of speaking that allows you to speak confidently in front of other people, you've already made big steps towards better style! To get even better, practise in front of a mirror or your friends and family.

### A DEBATE IS MADE UP OF THREE IMPORTANT ELEMENTS: STRATEGY, CONTENT AND STYLE.



REMEMBER TO HAVE FUN WHEN YOU DEBATE!  
AND ALWAYS RESPECT YOUR TEAMMATES,  
OPPONENTS AND JUDGES.

# CLASS ACTIVITY

# BREAK A LEG!

In theatre, just before the actors go on stage to perform, it's not unusual for someone to say 'break a leg!' It's an idiom that means 'good luck'. In this fun class activity, you and your team will act out an idiom for the rest of the class to guess. Divide into groups of five or less and choose one of the idioms below. Break a leg!

**ELVIS HAS LEFT THE BUILDING**

Meaning: The show has come to an end.

**IT TAKES TWO TO TANGO**

Meaning: Two parties are responsible for a certain action or situation in which they are involved.

**PREACHING TO THE CHOIR**

Meaning: Trying to convince someone about something they already support or understand.

**A PENNY FOR YOUR THOUGHTS**

Meaning: A way of asking what someone is thinking.

**AT THE DROP OF A HAT**

Meaning: Acting without any hesitation.

**BARKING UP THE WRONG TREE**

Meaning: Looking in the wrong place or accusing the wrong person.

**BIRDS OF A FEATHER FLOCK TOGETHER**

Meaning: People with similar interests or characteristics tend to spend time together.

**BITE OFF MORE THAN YOU CAN CHEW**

Meaning: Taking on a task that is too big for you.

**COUNTING YOUR CHICKENS BEFORE THEY HATCH**

Meaning: Making plans based on events that might or might not happen.

**CURIOSITY KILLED THE CAT**

Meaning: Being inquisitive could lead to an unpleasant situation.

**LET SLEEPING DOGS LIE**

Meaning: Don't disturb a situation.

**LET THE CAT OUT OF THE BAG**

Meaning: To reveal a secret or surprise by accident.

**OUT ON A LIMB**

Meaning: In a dangerous position to do something.

**RUB SALT IN YOUR WOUND**

Meaning: To make a difficult/unpleasant situation worse.

# FAMOUS FILM DIRECTORS

## TIM BURTON

The director of **ALICE IN WONDERLAND**

Tim Burton was born in America in 1958. He is a movie director, producer, screenwriter and artist. His first job was working as an animator for Walt Disney. But he had a very unique style and soon moved on to pursue his own creative projects.

His movies are often based on fantasy, which means they are about events that won't happen in real life. His remake of *Alice in Wonderland*, a movie based on the popular book by Lewis Carroll, is a visual delight filled with strange characters.

In 2015, he released a book titled *The Napkin Art of Tim Burton: Things You Think About in a Bar*. It contains sketches he made on napkins while visiting different restaurants. Have you ever jotted down any ideas on a napkin?

## STEVEN SPIELBERG

The director of **THE BFG**

Steven Spielberg is an American movie director, producer and writer. He was born in 1946. Since 1963, he has directed more than 30 movies! For two of the movies, he won an Oscar for Best Director.

His movies are often fantastical tales seen through the eyes of children and *The BFG* is no exception. The movie is based on Roald Dahl's popular book about a big friendly giant who befriends a little girl called Sophie. Together they go on an adventure to defeat man-eating giants who are terrorising the humans.

At the age of 16, Spielberg wrote and directed his first science fiction movie, which played at a small theatre in his hometown. The actors were his high school friends and the movie was shot in his garage. An audience of 500 people watched *Firelight*. Not bad for your debut!

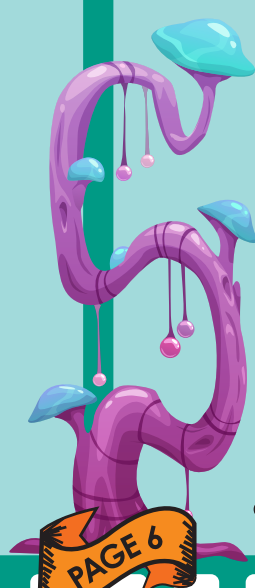
## MARTIN SCORSESE

The director of **HUGO**

Martin Scorsese was born on 17 November 1942 in New York. His career as a director, producer, screenwriter and film historian spans more than 50 years. With an impressive body of work and many awards under his belt, he is one of the most influential filmmakers in history.

Scorsese is best known for his movies about the mafia (a crime group that originated in Italy more than 200 years ago). But *Hugo*, one of his most recent films, is about an orphaned boy who lives in a Paris railway station. His late father left him a broken automaton – a mechanical device that imitates humans – and Hugo sets off on an adventure to solve the mystery of the automaton. The movie won five Oscars and is well worth a watch.

Source: [wikipedia.com](https://www.wikipedia.com)



# DO YOU KNOW WHAT THESE WORDS MEAN?

confuse	vehicle	parachute	threshold	glacier	mosquito	notorious
abandon	affinity	architect	announcement	freight	cassette	undermine
seminar	collapse	broadcast	beneficiary	premium	vertical	catalogue
guideline	restrict	entertain	highlight	dynamic	compound	publicity
subject	balance	incentive	conservation	capture	civilian	illustrate
deviation	appendix	eavesdrop	ghostwriter	dentist	pneumonia	remunerate
realise	recovery	migration	disagreement	humanity	sculpture	hypothesis
patient	fabricate	magnetic	exploit	diplomat	paralysed	artificial
silence	pioneer	innovation	density	imposter	therapist	possession
contrary	twilight	suitcase	penalty	contempt	conductor	absorption
arrange	genuine	reverse	musical	practice	overwhelm	relinquish
royalty	aviation	helicopter	falsify	disclose	prejudice	partnership
provoke	reporter	conscious	purpose	teenager	biography	incongruous
misplace	medieval	exception	gravity	detector	cooperate	resignation
emotion	popular	discovery	archive	presence	horseshoe	commemorate
shallow	proportion	hilarious	looting	controversial	cathedral	entitlement
cucumber	fraction	vegetarian	monarch	imperial	clearance	flamboyant
default	childish	offspring	applaud	terminal	consensus	accumulation
cylinder	grateful	extension	species	monopoly	perforate	contemporary
illusion	underline	establish	dribble	mutation	reinforce	complication
partner	implicit	consumption	reserve	excavate	residence	refrigerator

## FUN WITH PUNS

A pun, also called a 'play on words', is a figure of speech often used by writers to make their readers laugh. Words that sound similar but have different meanings are used in a humorous way. Look at the examples below. Can you spot the pun? Underline it!

- What do you call an alligator in a vest? An investigator.
- A backwards poet writes inverse.
- What do you call a sleeping bull? A bull-dozer.
- Being struck by lightning really is a shocking experience!
- I went to a seafood disco last night and pulled a mussel.

Now it's your turn to be punny! Write your own funny puns and see if you can make your friends laugh.

Source: [buzzle.com](https://www.buzzle.com)

## VERBS

Fill in the blanks with the correct form of the verb in brackets:

- You couldn't have \_\_\_\_\_ a better day for a picnic. (choose)
- Thembi's voice \_\_\_\_\_ as she spoke. (shake)
- His feet were \_\_\_\_\_ to death. (freeze)
- Sophie was \_\_\_\_\_ by a mad squirrel. (bite)
- Jack was \_\_\_\_\_ between two teams. (tear)

Answers: 1. Chosen, 2. Shook, 3. Frozen, 4. Bitten, 5. Torn

## BRAIN BUSTERS

How good is your general knowledge? Try this quiz to find out. Circle the correct answer.

- Which one of the following months has 31 days?  
(A) October (B) February (C) April
- Where does a bee live?  
(A) Den (B) Hive (C) Burrow
- Who invented the computer?  
(A) Thomas Edison (B) Charles Babbage (C) Alexander Graham Bell
- Which fruit is a rich source of Vit C?  
(A) Orange (B) Apple (C) Mango
- The sun is a...?  
(A) Planet (B) Comet (C) Star
- Which is the largest island in the world?  
(A) Madagascar (B) Green Land (C) New Guinea
- What is another name for calcium carbonate?  
(A) Salt (B) Chalk (C) Bleach
- The larvae of flies are called  
(A) Maggots (B) Leeches (C) Caterpillars
- Which mountain range borders France and Spain?  
(A) Pyrenees (B) Alps (C) Andes
- What is the scientific name for rust?  
(A) Iron oxide (B) Nitrous oxide (C) Carbon dioxide

Answers: 1. A, 2. B, 3. B, 4. A, 5. C, 6. B, 7. B, 8. A, 9. A, 10. A



# THE HAUNTED HOUSE

A VUYO AND GEMMA STORY

On top of the hill, behind towering trees and a rusty gate, stands the haunted house of Mouseville. Or so the townspeople say. It used to be a happy home. But one tragic night, the entire Vaudeville family was wiped out by wild cats with rumbling tummies and claws that could skin a mouse in one fell swoop.

Legend has it that whoever dares to enter the house on the hill, never returns. Of course, this means that every mouse in Mouseville is simply too scared to even go near it. So who knows if the legend is a myth or fact? Jonah and his best friend Jerome were determined to find out.

For weeks, they've been planning a hike up to the house. But Jerome keeps getting cold feet. He's too ashamed to admit this, but the thought of monstrous felines sends a shiver down his spine. His excuses have been nothing short of creative: "My tail poked my left eye while I was doing yoga." "I have to read Grandma Joey a story tonight. And she only goes to bed after 12 on a Wednesday." "Have I told you I'm lactose intolerant? Well, I had ice cream for breakfast..."

By the third week, Jonah was ready for a solo mission. "I'm going tonight. With or without you." He flapped his scrawny arms like wings, clucking like a chicken. "Fine, I'm coming," Jerome let out a sigh. His whiskers quivered. He didn't like being called a chicken.

Just past midnight, the two friends met by the lamppost at the bottom of the hill. "What's in the backpack?" Jonah asked. "Pieces of cheddar. To leave a trail... for in case... you know... our family needs to find us," Jerome replied with a whisper.

Under the light of the full moon, they followed the path to the house that was shrouded in darkness. They slipped through a hole in the wall. And there it was: a monster covered in cobwebs with bricks for bones. Bare branches scratched against the windows like skeleton fingers. Jerome was about to grab Jonah's paw to make a run for it, when the front door cracked open.

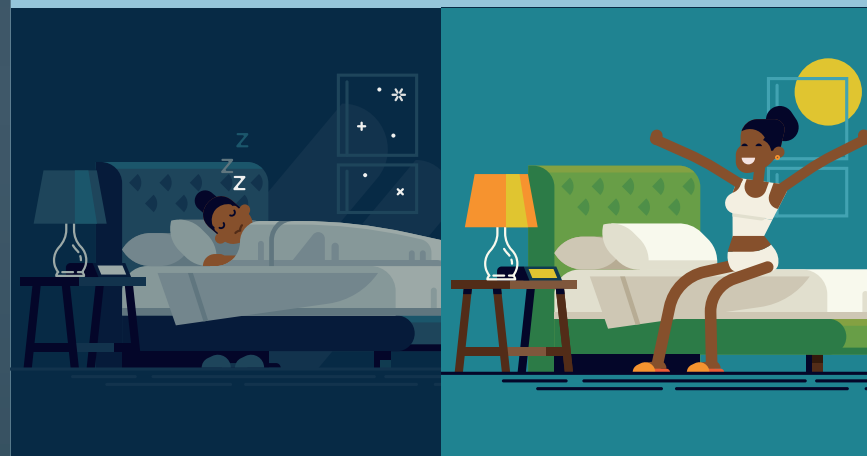
What do you think happens next? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

# ZZZZZZ...

How do you feel when you wake up from a good night's rest? Probably full of energy and ready to ace that test! That's because sleep helps your body and brain prepare for the new day ahead.

Every living thing on earth needs sleep. Even the smallest insect. Some animals sleep up to 20 hours a day! Fortunately, you don't need to spend as many hours in dreamland. Otherwise, you won't have enough time to play with your friends or learn interesting things. But you do need at least 10 hours of sleep every night to stay healthy and happy.

You might think your body and brain are resting while you're slaying dragons in your sleep. But they are actually working hard to replenish the energy you lost during your busy day.



Imagine you're a car that starts the morning with a full tank of fuel. You drive around all day and in the evening, you have to stop at the petrol station to fill up your tank. Well, sleep is like fuel for your body and you have to fill up your tank every day.

If you get enough sleep, you will find it easier to concentrate in class. You will also be in a better mood with enough patience to enjoy your friends and family. With a rested mind, you can be creative and solve problems. Sleep also helps your body to fight illness.

If you don't get enough sleep, you will struggle to remember the things you learn at school. You will also have trouble making good choices. You will be too tired to play games and sport. We know it's sometimes hard to listen to your teachers and parents, but without enough sleep, you will find it even more difficult!

## TO MAKE SURE YOU GET ENOUGH SLEEP, TRY THIS:

- Keep your bedroom cool, quiet and dark.
- Get enough exercise during the day.
- Go to bed the same time every night.
- Avoid sodas and chocolate before bedtime.
- Eat your biggest meal for lunch and a smaller meal for dinner.
- Relax before bedtime by listening to calm music or reading.

Source: [sleepforkids.org](https://sleepforkids.org)



# SO YOU WANT TO BE A CREATIVE WRITER?

**Your imagination has no limits. Follow the tips below and use your creativity to write awesome stories!**

- 1. Show, don't tell.** This is when you describe something without stating the obvious. For example, if a woman is glamorous, you could say she is dressed in high heels and a mink coat. Practise this skill by writing down descriptions of things you see throughout your day. Creative writing is meant to entertain. If you use this technique, the reader has to use imagination to see what you are describing.
- 2. Use your senses.** How would you describe a day at the beach using your sense of taste, sight, smell, touch and sound?
- 3. Read a story in your classroom.** Divide into groups and act out parts in character. Take note of your character's tone of voice, body language and emotions. This will help you develop interesting characters for your own story.
- 4. Collect images from magazines and newspapers.** Write down the words that come to mind when you look at these images. It could be the start of a new poem or short story!
- 5. Write about what you love and know.** Are you a soccer fan? Write about a little boy whose dreams came true when he started playing for Bafana Bafana. Do you love animals? Create a story around a pack of dogs that roam the streets in search of mischief.
- 6. Don't just sit there. Start writing!** It's impossible to edit a blank page. Creative writing requires freedom of thought. So write down whatever comes to mind and worry about improving your copy later. You might be surprised where your story ends up!

Source: kumon.co.uk



## SIMILES VS METAPHORS

Do you know the difference between a simile and a metaphor? Both are figures of speech – a word or phrase that has a meaning other than the literal meaning – and both make comparisons. But a simile directly compares two things using 'like' or 'as', while a metaphor makes an indirect comparison between two things that are not alike but do have something in common. Have a look at these examples:

She acts like a wolf when she wants to protect her children. (Simile)

**VS**

Jacob is a hungry wolf. (Metaphor)

Laetitia was as cool as ice when she got on stage. (Simile)

**VS**

Her heart is ice. (Metaphor)

As you can see, they are similar in nature. But once you become familiar with these two figures of speech, you will spot the difference in no time!

## SHOW, DON'T TELL

**When you describe something without stating the obvious, you show instead of tell the reader. The sentences below tell the reader what is happening. Rewrite them to show the reader the same information:**

1. The man was angry. *The man was red in the face and clenched his teeth.*
2. The little girl was sad. \_\_\_\_\_
3. She was afraid to enter the dark passage. \_\_\_\_\_
4. The boy felt alone on his first day at school. \_\_\_\_\_

## MARVELLOUS METAPHORS

The metaphor is a popular figure of speech used by writers and poets. Have a look at the commonly-used metaphors and their meanings below.

**Metaphor:** Bonang has a heart of gold.

**Meaning:** This tells us that Bonang is a kind and loving person.

**Metaphor:** Thabo's voice is music to my ears.

**Meaning:** This means that it is pleasant to hear Thabo's voice – it is as nice as listening to music.

**Metaphor:** Justine is a walking encyclopedia.

**Meaning:** This says that Justine knows so much about many different things, it's as if she is an encyclopedia.

**Metaphor:** The world's a stage.

**Meaning:** This metaphor implies that people's lives are filled with drama because so many things happen.

## CIRCLE THE SIMILE

**Below are examples of similes. See if you can spot them:**

Julius was as sly as a fox.

She sings like an angel.

He is as strong as an ox.

Emma and Lerato are like two peas in a pod.

The water is as clear as the sky.

Joshua's hands feel like ice blocks.

# NATURAL DISASTERS

# HOW TO SURVIVE

# A DROUGHT

Natural disasters can be scary. But the more you know about them, the better you can deal with them. In South Africa, we have had earthquakes, floods, storms and wildfires. At the moment, the Western Cape is experiencing water shortages, so we are going to focus on how to survive a drought.

## WHAT IS A DROUGHT?

Droughts occur when a region has not had enough rainfall for more than one season. Even during normal rainfall, if people use too much water, a drought can occur. We need water to live. So do animals and plants. If we don't have enough water, it can affect our community and environment in many different ways. Saving as much water as possible is the key to surviving a drought.

## 5 WAYS TO SAVE WATER



Don't leave the tap running while you're washing your hands and face. (Or make your own water-wise tap.)



Close all taps properly.



When you brush your teeth, use a cup of water.



Fill a basin or bucket with a bit of water and use this to wash.



Instead of pouring water down the sink, pour it into a bucket and use the water to flush your toilet.

## MAKE YOUR OWN WATER-WISE TAP

1. Find an empty 2-litre plastic bottle with a bottle cap.
2. Use a screw to make a tiny hole at the bottom end of the bottle.
3. Fill the bottle with water and seal it with the bottle cap.
4. When you have to wash your hands or face, gently press the bottle or unscrew the cap to release the water.

## WORK WITH WATER: BECOME A HYDROLOGIST

If you are passionate about water and preserving it for future generations, make a career of it!

As a hydrologist, you will study everything about water. Including its properties, distribution and movement through the atmosphere. It will be your job to make sure there is enough water to support all life on earth. For instance, you will look at ways to minimise erosion and environmental pollution, use technology to forecast water supplies, floods, the spread of pollution and other events.



# GROW YOUR OWN VEGETABLES

Imagine biting into a ripe tomato bursting with flavour. One you just plucked from your very own tomato plant! Growing your own vegetables is a rewarding experience. You will know exactly where your veggies come from and have healthy food to share with your family and friends.

## STEP 1: BUY THE SEEDS

First, decide what vegetables you want to plant. Have a look at our seasonal guide for ideas. You can buy the seeds from your local nursery or supermarket. You can also get seeds from the vegetables you eat at home! Simply dry the seeds found in tomatoes, peppers or eggplant before you plant them. Some plants can be grown without seeds, such as potatoes. Place a few potatoes in egg boxes on the window sill. Wait for the eyes to sprout leaves before you plant the potatoes in soil.

## STEP 2: PLANT THE SEEDS

Read the packet instructions to see if your vegetables need lots of sunshine or more shade. Find a suitable spot in your garden and

add compost. If you don't have a garden, you can fill a container with soil and compost. Follow the instructions to know how deep to plant your seeds.

## STEP 3: WATER YOUR SEEDLINGS

During a drought, it's best to plant vegetables that don't need a lot of water. For example corn, spinach, cucumber, eggplant, melon, sweet potato and tomato. By planting your vegetables close together, you can also save on water. The leaves of the plants create a canopy that covers the soil and prevents the water from evaporating.

## SEASONAL VEGGIES

To give your vegetables the best chance of survival, plant them in season. Follow the guide below.

**Spring:** Lettuce, peas, radishes, spinach, beetroot, onions and garlic  
**Summer:** Tomatoes, beans, sweetcorn, sweet peppers and summer squash  
**Autumn:** Broccoli, cabbage and carrots

Source: uno-zwei-tutu.com



# WATER POLLUTION

The earth's surface is made up of two-thirds water and one-third land. If you live in the Western Cape, you will probably find this hard to believe. We are experiencing a drought! But it's true.

The human population continues to grow as people live longer than ever before. This puts pressure on the planet's water resources. Pollution, caused by humans, reduces the quality of these resources.

## WHAT IS WATER POLLUTION?

When one or more substances have built up in water and it affects the health of plants, animals and humans, the water is polluted. There are many different kinds of water pollution, but we will focus on two: sewage and plastic.

## SEWAGE

When you flush the toilet, the waste doesn't just disappear into thin air. It ends up at the sewage treatment works where toxic chemicals are removed. The sewage waste is then pumped into the sea, sometimes untreated. This can cause pollution. Sewage is supposed to be a completely natural substance – it's 90% water. But it also contains harmful chemicals (from medication people take), paper, plastic and everything else people flush down their toilets.

## PLASTIC

Plastic is by far the most common form of pollution that washes up on our seashores. Most plastics are not biodegradable, which means they don't break down naturally in the environment. That plastic bottle you carelessly left at the beach, can survive for up to 450 years in the ocean! We're pretty sure you don't want to eat plastic. Neither do the seabirds, fish and other marine life.

## HOW DOES WATER POLLUTION AFFECT US?

We depend on the environment for life and health. Water, especially, is crucial to the survival of every living being. If we destroy our water with pollution, we will reduce the quality of our own lives.



## ARE YOU A WATER WARRIOR?

See if you can say YES to all the statements below!

- ☐ I don't flush foreign objects down the toilet.
- ☐ I keep the beach clean by picking up after myself.
- ☐ I join beach/river cleans organised by my community.
- ☐ I don't pour oil from my dad's car down the drain.
- ☐ My family uses environmentally-friendly detergents.

Well done, water warrior! By working together, we can solve the pollution problem and make the world a better place for everyone.

Source: [explainthatstuff.com](http://explainthatstuff.com)

## PROFESSOR THANDI SAYS:

Do you want to be a water warrior for life? Then consider one of these exciting careers:

- Water quality scientist
- Environmental health practitioner
- Hydrologist
- Conservation scientist



# IDIOM QUIZ

Fill in the missing word to complete the following foodie idioms:

- (Very easy to do) A piece of \_\_\_\_\_
- (Basic things you need to survive) Bread and \_\_\_\_\_
- (To earn money to live) Bring home the \_\_\_\_\_
- (Very cheap) Cheap as \_\_\_\_\_
- (Upset or sad over something in the past) Cry over spilt \_\_\_\_\_
- (Not to your interest/taste) Not your cup of \_\_\_\_\_
- (Involved in many activities) Finger in every \_\_\_\_\_
- (You should not completely believe something) Take with a pinch of \_\_\_\_\_
- (Very important person) A big \_\_\_\_\_
- (Very relaxed) Cool as a \_\_\_\_\_
- (Life is easy) Life is a bowl of \_\_\_\_\_
- (Crazy or eccentric person) This person is a \_\_\_\_\_

Answers: 1. Cake, 2. Butter, 3. Bacon, 4. Chips, 5. Milk, 6. Tea, 7. Pie, 8. Salt, 9. Cheese, 10. Cucumber, 11. Cherries, 12. Fruitcake

# GENERAL KNOWLEDGE

- What does a Giant Panda's diet consist of? \_\_\_\_\_
- What is the first element on the periodic table? \_\_\_\_\_
- What is the name of the largest ocean on Earth? \_\_\_\_\_
- What do you call molten rock after it has erupted? \_\_\_\_\_
- Which ship sank on her maiden voyage in 1912? \_\_\_\_\_
- Who is the founder of Virgin Records and Virgin Airlines? \_\_\_\_\_
- Which planet is known as the "Red Planet"? \_\_\_\_\_
- Crawl, backstroke and butterfly are different methods of which sport? \_\_\_\_\_
- Who painted the Mona Lisa? \_\_\_\_\_
- How many sides does a hexagon have? \_\_\_\_\_
- What is the name of the phobia that involves an abnormal fear of spiders? \_\_\_\_\_
- Which year did the last male northern white rhino die? \_\_\_\_\_

Answers: 1. Bamboo, 2. Hydrogen, 3. The Pacific Ocean, 4. Lava, 5. Titanic, 6. Sir Richard Branson, 7. Mars, 8. Swimming, 9. Leonardo da Vinci, 10. 6, 11. Arachnophobia, 12. 2018

# PROFESSOR THANDI'S FUN SCIENCE EXPERIMENT



**INVISIBLE INK!**

Put your secret agent cap on and get ready to send secret messages to your fellow agents. We're making invisible ink!

## YOU WILL NEED

- Half a lemon
- Spoon
- Cotton bud
- A lamp
- Water
- Bowl
- White paper

## INSTRUCTIONS

1. Squeeze a few drops of lemon juice into your bowl.
2. Add a bit of water and mix with the spoon.
3. Dip the cotton bud into the mixture.
4. Write your secret message on the white paper using the cotton bud.
5. Wait for the message to dry. It will become completely invisible.
6. Pass the message on to your secret agent, who has to heat the paper by holding it close to the switched-on lamp.

## RESULTS

During the heating process, the lemon juice is exposed to oxygen. This produces a chemical reaction called oxidation, which causes the lemon juice to turn brown. When you dilute the lemon juice with water, it becomes invisible when applied to a white paper. Therefore the secret message is only revealed when the paper is heated by a lamp. You can also try this experiment with orange juice, honey, milk and vinegar.

Source: [sciencekids.co.nz](http://sciencekids.co.nz)



## CAN YOU BECOME A MARTIAN?

When you daydream, someone might tell you it looks like you're on a different planet. But this is just a figure of speech. Do you think it's possible for humans to live on another planet?

Out of the remaining seven planets in the solar system, our neighbour Mars shares the most similarities with Earth. Unfortunately, this doesn't mean you can become a Martian just yet! For starters, Mars is covered with red dust and rocks

made from iron oxide – a mixture of iron and oxygen. You will recognise this as the rust you see when you leave a tin can outside. It's impossible for food to grow on this terrain. There is also no water to use or drink.

Just like a day on Earth, a Martian day also has 24 hours. The planet experiences four seasons, as we do. But even in summer, it's extremely cold. Mars has a thin atmosphere (in contrast with Earth's thick atmosphere that protects us) and the sun's heat therefore escapes. The atmosphere is also filled with poisonous carbon dioxide. You will have to wear a special suit to stay warm and receive oxygen. Your suit will also have to protect you from the sun's radiation.

Source: [kidsastronomy.com](http://kidsastronomy.com)

### PROFESSOR THANDI SAYS:

Phew! Thank goodness we live on Earth. Can you see why we have to take good care of her? For now, she is the only planet we can survive on! NASA, the space agency in the United States, believe they can help humans live on Mars by 2030. What do you think?

