

Home Learning Pack 8: Stage 3



Digital resources to support learning at home.

Students can access their accounts for the following programs:

- Prodigy (Maths activities) – <https://sso.prodigygame.com/login>
- CARS and STARS (Reading and comprehension)- <https://app.carsandstars.com.au/>

The following are websites that have stage appropriate activities.

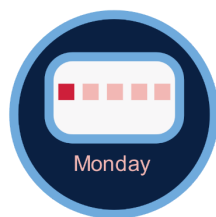
- Maths Magician (Timed Multiplication) - https://coolsciencelab.com/math_magician.html
- The Squiz (podcast approx. 10 minutes of news and current affairs) - <https://www.thesquiz.com.au/podcast/>
- BTN (Behind the News) - <https://www.abc.net.au/btn/>
- Kids News (literacy resource) - <https://www.kidsnews.com.au/>
- Everyday Maths Hub - <https://education.nsw.gov.au/campaigns/mathematics/everyday-maths>
- Education Live Stream, 10am every weekday- <https://education.nsw.gov.au/teaching-and-learning/learning-from-home/learning-at-home>

Home Learning – Stage 3 – Pack 8 - 2021













The following activities will be based on the Guided Learning Packages from the Department of Education – Week C. We have included support material to guide the completion of activities for students without access to technology. You may need help from a parent/carer and the resource pack from your teacher. All video links for today can be found at:

<https://sites.google.com/education.nsw.gov.au/guided-learning-packages/week-f/week-f-stage-3/monday>

Day 1	
Morning	<p>English - <u>Read to Self:</u> Spend 15 – 20 minutes reading. <u>Word Work:</u> Write out your spelling list. Write definitions for five of your spelling words.</p> <p>English –</p> <ol style="list-style-type: none"> 1. Category Challenge 2. Listening - ABC kids news or Squiz Kids 3. Reading & Viewing – Mr Erasmus does the tango 4. Reading - Identifying and Analysing Similes
BRAIN BREAK	
	<p>Let's watch Education Live! This will start at 10am each day. Don't worry if you miss it, you'll be able to re-watch it at any time.</p> <p>https://education.nsw.gov.au/teaching-and-learning/learning-from-home/learning-at-home</p>
Middle	<p>Mathematics – Ninja Maths: Use a timer to see how many you get done in 5 minutes <i>or</i> see how long you take to complete each column.</p> <p>Matharoo Word Problems: Work through the Matharoo Word Problems at your level. Complete as many as you can by the end of the week.</p> <p>Mathematics –</p> <ol style="list-style-type: none"> 1. Super Shapes 2. Strike it out!
Afternoon	HISTORY - Democracy, Key Figures and Events



Things you need

Activity	You will need
Most activities	 workbook  paper  lead pencil and coloured pencils
Brain break	 Timer
Physical activity	 A medium-sized ball that bounces (like a basketball)  Timer Water bottle
Maths activities	 2 sheets of paper per player  different coloured pencils or markers  spinner- tenths and hundredths (included in maths section)  1 six-sided dice or spinner  paper clip for the spinner
Creative Arts	 paper or cardboard A camera An object from around the house with pattern of lines or shapes

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During the day make sure you take time to

- do a care and connect
- take a brain break
- do some physical activity

Care and connect – Friends



Watch the video or read the instructions.

Friends are one of the greatest gifts of life. One of the best bits about them is you get to choose your friends. Some friends you have known your whole life. Others you will meet along the way - at school, at sport or through other friends. A good friend makes you happy. Good friends have lots of qualities too like being kind, supportive, a good listener and someone you can have fun with. Close your eyes. Think of a good friend, maybe even your best friend. Your good friend might be living with you or it might even be your pet. Think about how much fun you've had together. Think of a time you were together and what you got up to. Sometimes it's hard to stay connected with our friends because they live far away, or we are in lockdown. You can still connect with your friends. You could write them a letter, call them on the phone, make them a card, draw them a picture or organise a video chat.



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Brain break – I spy

How many things can you find around the house that starts with the same letter as your first name in one minute?



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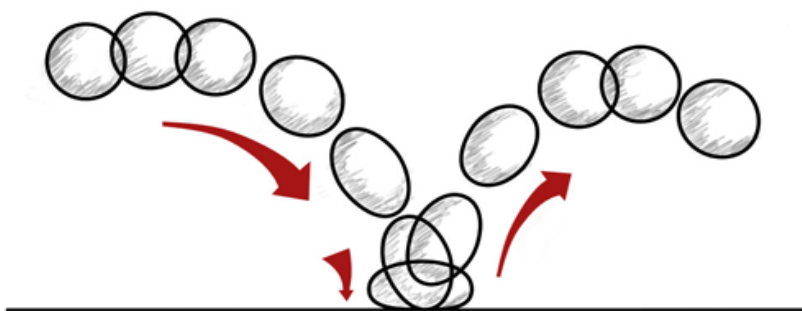
Physical activity – Bouncing and Dribbling

Scan the QR code to watch the teaching video Bouncing and Dribbling or read the instructions below.



Today you are working on your bouncing and dribbling skills.

1. Collect the items you need (see the things you need list).
2. Warm up your body – Run on the spot for 30 seconds, star jumps for 30 seconds, squats for 30 seconds, jumping side to side for 30 seconds. Spend 3 minutes stretching your muscles.
3. Hold the ball with 2 hands. Bend your knees slightly. Having control is very important. When you are bouncing the ball make sure the ball bounce comes back up to your hip height. Choose one hand to bounce the ball with. Bounce the ball 5 times. Swap hands and do another 5 bounces with your other hand. Can you keep control and bounce the ball for 30 seconds? If you can, try swapping hands after every 5th bounce.
4. Try keeping control of the ball doing low bounces. Can you bounce the ball for 30 seconds?
5. Try keeping control of the ball doing high bounces. Can you bounce the ball for 30 seconds?
6. Bounce the ball from your right hand to your left hand (like a V shape). It's called a crossover dribble. Practice bouncing the ball from your right to left and back again. Can you crossover dribble for 30 seconds?



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7. Can you do a crossover dribble with 1 hand? Bounce the ball in a v shape using just 1 hand. How long can you bounce it like this?
8. Make up your own bouncing and dribbling challenge. Challenge someone at home to do it too!

English – Activity 1 – Listening: Sounds Outside



Scan the QR code for the lesson, or read the following instructions.

Sit outside for 2 minutes and listen carefully. What sounds can you hear?

Can you hear birds? Can you hear cars or trucks? Can you hear dogs barking? Can you hear your washing machine in the laundry?

You may hear human and natural noises.

List everything you can hear in your workbook. To challenge yourself, you may like to write descriptions of the sounds, for example the high-pitched twitter of the bird; the rumbling, swishing sound of the washing machine.



["A couple of lawn chairs"](#) by Riley Pitzen is licensed under [CC BY 4.0](#)

Challenge

If you lived somewhere else in NSW, what do you think you would hear? For example, if you are from the city, what might you hear if you lived on farmland?

Create a Venn diagram comparing your area to the other area you just thought of and include the similarities and differences.

English – Activity 2 – Reading and viewing: 'Mr Kessel's Bush Tucker Garden'



Scan the QR code to listen to and read the text 'Mr Kessel's Bush Tucker Garden' by Sally Dixon.

As you listen to the story, try to visualise the setting (where the story takes place). What does the house look like? What does the garden look like?

In your workbook, draw and label a diagram showing what the house and garden look like. Include adjectives (describing words) in your labelling. Look for clues in the text to help you. For example, the author writes that the greenhouse is a 'small building half-hidden by trees', so you would need to draw a little building poking out from between the trees.

English – Activity 3 – Writing Descriptions



Look at your labelled diagram of Mr Kessel's house and garden.

You are going to write your own description about the house OR the garden. In your description, remember to include the clues in the text. For example, if you write about the house, you might like to include the creaking floorboards, the red-bricked exterior, or the smell of musty books. If you are writing a description of the garden, you could include descriptions of the rectangular wooden trough or the greenhouse.

Try and include adjectives, a simile and a metaphor in your description.

Challenge

Experiment with other figurative language devices such as onomatopoeia and alliteration.

Write a description of both the garden and the house.

Mr Kessel's Bush Tucker Garden

Story by Sally Dixon, illustrated by Gabriel Evans
Published by The School Magazine. Issue 6, 2019



OLD MR KESSEL LIVED next door. He lived alone in a red brick house with a backyard that Josh thought must go on forever. Mr Kessel's yard was filled with trees, and the trees were often filled with wrens, magpies, cockatoos or galahs. It reminded Josh of the Australian bush. One day last summer his family had left town and driven to the mountains where they'd embarked on a three-hour bushwalk. Josh remembered the grey-green leaves, the warbled voices of birds and the smell of lemony eucalyptus baking in hot sun.

Every day without fail Mr Kessel dug, raked or weeded his garden, and occasionally he just stood quietly underneath a scribbly gum with a tin cup of coffee in his hand. In those moments he stared at his garden with a gleam in his eye and a crooked smile on his face.

Mum sometimes made friendly chitchat with Mr Kessel over the fence. But Josh and his little brother, Matty, never did. They were fascinated, and also a little terrified, of the old man. He spoke with an unfamiliar accent—not an Australian one like their family did. He seemed as tall as a giant, and his skin looked as tanned and wrinkled as an old leather shoe.

But the most incredible thing about Mr Kessel was his right leg. It wasn't real. Josh and Matty had discovered this fact by accident. There was a gap in the wooden fence between their backyard and Mr Kessel's, which the boys sometimes peeked through. One day while peeping through the crack, they saw the old man hoist up his trouser leg. There should have been soft hairy skin underneath the fabric. But there wasn't. Instead, the boys glimpsed some black and silver metal. Matty squealed, and Mr Kessel looked towards the

fence with surprise. The brothers jumped up and ran as fast as they could back inside the house.

Josh wondered how a big man like Mr Kessel could lose a leg.

* * *

One Saturday afternoon Josh and Matty were playing cricket out in the backyard. Josh was batting; Matty was bowling, and Lola, their Silky Terrier, was fielding.

They played fast and hard. Matty was a reasonable bowler and Josh an exceptional batsman. Little Lola ran back and forth endlessly with her nose in the air and her eyes on the ball.

Matty rubbed the red cricket ball against his thigh, the way he'd seen players do on television. He looked his brother up and down and ran towards him. With a powerful overarm throw, he released the ball. It arched through the sky. Lola quivered with excitement, and Josh held his bat in position, never taking his gaze away from the oncoming ball.

SMACK! The bat whacked against the ball and sent it soaring high into the blue sky. Up, up, up it went, and then with an elegant curve began its descent. The boys held their breath, their eyes growing wider and wider with horror as they watched the ball fall. It wasn't going to land in their backyard. It was headed straight for Mr Kessel's garden!

Lola raced to and fro like a doggy ping-pong ball, but Josh and Matty stood like statues. They heard the tinkle of breaking glass. And then there was silence. Josh groaned. What should they do?

The boys raced towards the fence and peeped through. What had they broken?

They glanced towards Mr Kessel's house, but the windows were all intact. They gazed the other way and noticed a small building half-hidden by trees; it was a greenhouse. See-through walls glistened in the sunshine—except in one spot where there was a jagged new hole.

Josh and Matty looked at each other with guilty faces. They realised it was only a matter of time until Mr Kessel came outside. They were too scared to retrieve their ball in case they bumped into the one-legged giant. Instead, the boys pulled up their stumps and disappeared inside the house. They thought it wise to lay low. They settled themselves in beanbags in front of the television and switched on a favourite movie.

About a half-hour later the doorbell sounded. Lola yapped her way down the hallway, but the boys looked at each other and didn't say a word. Josh felt heavy inside, as if he'd swallowed ten cricket balls all at once.

They heard their mum's voice, and in between her speaking, they heard the accented voice of Mr Kessel. Several minutes later, the front door clicked shut. Footsteps marched

down the hallway and Mum appeared before them. She was holding their cricket ball. With a hand on one hip she asked, 'Anyone care to tell me what happened?'

Josh looked down and kicked at a crumb on the carpet. 'It was an accident,' he muttered.

Matty remained mute.

'I thought I'd raised two honest boys. I'm disappointed. You should've come and said something right away.' Mum paused. 'It's going to cost Mr Kessel a lot of money to fix his greenhouse.'

'Sorry, Mum,' said Josh with a remorseful voice.

'Sorry, Mum,' echoed Matty.

'It's not me you need to apologise to. It's Mr Kessel.'

The boys looked at each other with panic in their eyes. Were they going to have to speak directly to the old man?

'Tomorrow afternoon both of you will go next door and apologise. Mr Kessel and I have talked and decided that you will help pay for the cost of fixing the greenhouse.'

Josh and Matty looked at each other again with even more panic in their eyes.

Mum continued. 'Mr Kessel will have to get the greenhouse fixed straightaway, but every Sunday afternoon you'll earn money by helping him in his garden. He won't give you the money directly, but he'll keep a tally of how much you earn. That money, plus pocket money from home, will go towards the cost of replacing the glass.'

Josh now felt like he'd swallowed twenty cricket balls.

* * *

The next day the boys walked over to the red brick house and timidly knocked on Mr Kessel's front door. Floorboards creaked as heavy steps drew close. The door swung open and Mr Kessel himself towered over them.

The old man looked down at the boys and there seemed to be a twinkle in his eyes. 'Welcome, Joshua. Welcome, Matthew,' he greeted them. He used their full names, not their nicknames like everyone else did.

'You can call me Benjamin,' he said.

The inside of his home was simple and neat, and the air smelled like a mixture of musty books, sausages and sweet-scented flowers.

Benjamin Kessel led them through the house and into his backyard.

‘Welcome to my bush tucker garden,’ he said.

Josh and Matty looked around. They didn’t know what a bush tucker garden was, but felt too shy to ask. They stood beside a rectangular wooden trough where spinach-like leaves sprouted. Matty stroked one with his finger.

‘That plant’s called Warrigal greens,’ said Mr Kessel. ‘It’s delicious cooked in omelettes or stir-fried with other vegetables.’

Matty wrinkled his nose. It looked like spinach, and he hated spinach.

‘Don’t turn your nose up at food until you try it,’ said Benjamin, as the twinkle returned to his eyes.

Throughout the next hour, Benjamin gave the boys a guided tour of his garden. He showed them flowers, bushes and many varieties of trees: macadamia, lemon myrtle, Illawarra plum and pepper leaf.

He pointed to a wattle-tree. ‘Wattle seeds are delicious in cakes and desserts,’ he said. ‘One day I’ll make you pancakes with wattle seed ice cream.’

Matty forgot to be shy and responded with a loud ‘Yum!’ The old man smiled at him.

‘And you can try some of my lilly pilly jam with the pancakes,’ he said, pointing to a slender branch laden with unripe berries.

They came near the small greenhouse where they could see a big hole in a window. It was time. Josh pressed his lips together, took a deep breath and forced the words out of his mouth. ‘Sorry, Mr Kessel—I mean Benjamin—for breaking the glass,’ he said in an almost-whisper.

‘I’m sorry too,’ mumbled Matty.

Now the hole with its sharp, nasty edges was right before them, but Benjamin only smiled and said, ‘These things happen.’ Then he added, ‘It’ll be fixed this week, and all will be well.’ He said nothing more about it and led the boys inside the greenhouse.

Rows of tiny germinating seedlings surrounded them. Plastic markers identified the plants. Josh read some of the names: *bush tomato*, *rosella flowers*, *hibiscus*, *saltbush* ... and there were many more.

‘Have you guessed yet what bush tucker is?’ asked Benjamin.

Josh had become so interested in the plants that for a moment he also forgot to be scared.

‘Is it ... um ... plants you get food from?’ he asked hesitantly.

‘Yes,’ said Benjamin. ‘And where do you think the plants come from?’

The boys looked blank, until Josh finally guessed: 'Australia?'

'You're right. All these plants are native to Australia.'

Josh wondered why a man with a foreign accent would grow nothing but Australian plants. He felt so curious he asked with more confidence, 'Are you from Australia?'

The old man looked at Josh with a thoughtful expression. 'I was born in a country called the Netherlands, but twelve years ago my precious wife, Annika, died. It was a difficult time. My son had moved to Australia several years before and wanted me to come here. So I did.' He paused. 'At first I missed home ...'

Josh thought Benjamin's blue eyes looked a bit watery.

'Gardening gave me something to do when I felt sad about Annika. And growing bush tucker plants helped me settle into my new home. Now, I'm thankful to live here, to be near my son and family. The garden reminds me of how lucky I am.'

Benjamin took them to a shaded garden bed where smooth green tips poked through the soil. 'All my plants are Australian, except for these. They're from the Netherlands. Like me, they've learnt to grow in foreign ground.'

'What are they?' asked Matty.

'Tulips,' said Benjamin. He said no more.

Throughout the next weeks, the boys lost all fear of their neighbour and looked forward to Sunday afternoons. Benjamin taught them to remove weeds to plant new seeds in little containers and to transplant seedlings into the outside garden. But Josh's favourite job was picking berries, pods or leaves from the garden.

* * *

One Sunday, when colourful tulips bloomed in the bush tucker garden, Benjamin invited Josh's whole family, including Lola, for afternoon tea. Fat pancakes were placed on each person's plate, and on top of these Benjamin scooped wattle-seed ice cream and dolloped lilly pilly jam. Even Lola gobbled down a doggy-sized pancake on the ground.

Josh tucked into the creamy treat, and wondered why he'd ever been afraid of his neighbour. He took a spoonful of speckled ice cream, but before bringing it to his lips, he had a thought. He'd been thinking about gardens so much lately he'd forgotten something.

'Can I ask you something, Benjamin?' he said.

'Of course,' answered the old man.

'How did you lose your leg?'

Mum looked at Josh with an I-can't-believe-you-just-asked-that expression.

But Benjamin didn't seem to mind. 'It was a car accident,' he said simply.

'Oh,' said Josh.

An awkward silence followed; no-one knew quite what to say next, but then Benjamin's face crinkled with a crooked grin.

'Want to have a look?'

The boys eagerly nodded their heads. They watched their neighbour lift his trouser leg, revealing the metal limb. He unstrapped it and held it in his hands for all to see.

'You could use it like a cricket bat,' shouted Matty with excitement. Everybody laughed.

Josh looked around Benjamin's bush tucker garden and decided he was lucky. Even though Benjamin was old, Josh knew they were lucky to live next door to him

Between mouthfuls of ice cream and admiring glances at Benjamin's leg, Josh felt a warm sensation growing inside his chest. It was the sort of feeling that comes when you know you've made a new friend. A friend does something kind for you.

Maths – Activity 1 – Colour in the decimats- part 2

Adapted from Anne Roche (Australian Mathematics Primary Classroom, 2010)

This activity has a game board broken up from a whole into tenths and hundredths. You can find it on the pages following these instructions. Have a look at it now. You will notice the tenths are green and the hundredths are yellow. You may need to add more hundredths in as you play the game by diving you rectangle up. You can also draw up your own board as they have in the pictures



Set up.

This is a 2 or more player game.



To play this game you will each need the decimat and scoring sheet (found in this booklet)

You will need one copy of each of the spinners or you could use a dice instead of the 1-6 spinner.



If you can access a device to scan the QR code and watch the instructions do that now.

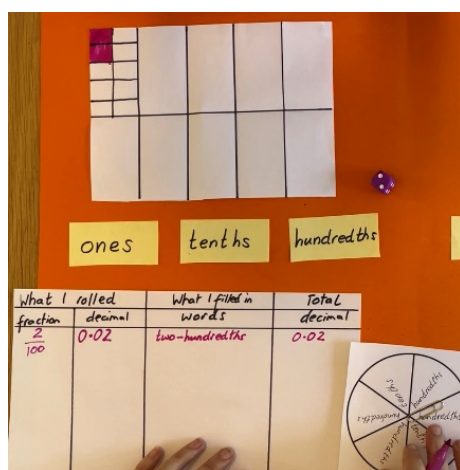
If you do not have access to a device the instructions are below.



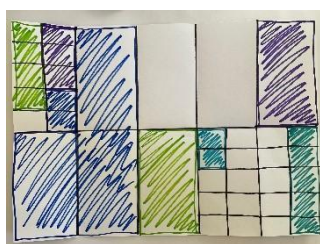


How to play

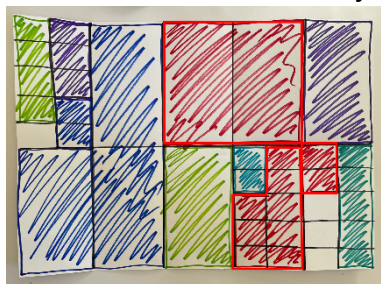
- Take turns to roll the dice and spin the spinner and fill in the game board. For example:
 - If a 2 is rolled and 'hundredths' are spun, we record our move as a fraction ($\frac{2}{100}$) and as a decimal (0.02)
- Colour in on the game board.



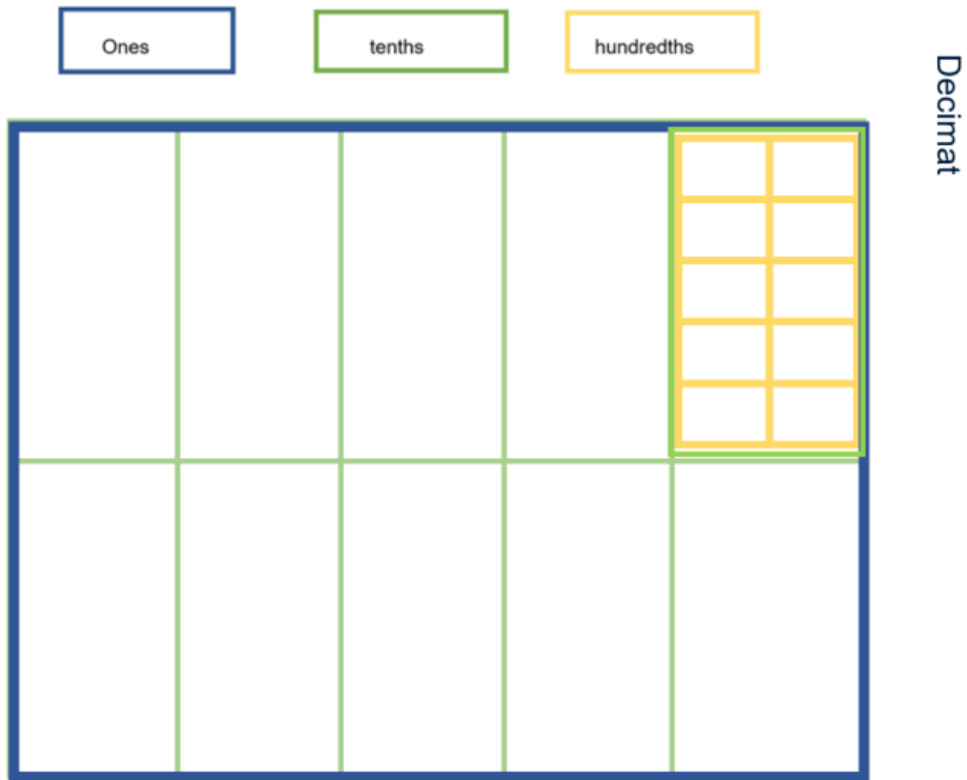
- Complete the 'What I filled' column in words (2-hundredths)
 - Calculate the total and record as a decimal.
- Use a different coloured marker or pen to fill in the game board for each turn.
- The winner is the first player to fill in 1-whole (their entire game board) or the player with the game board is closest to 1-whole after 10 spins.
- If a player spins a fraction that won't fit into the available space, they miss their turn.
- You can partition a roll in equivalent ways.
 - For example, I rolled 3-tenths but I only have 2-tenths left empty, and some hundredths too.



- I can partition my 3-tenths as 2-tenths, 8-hundredths and 2-hundredths more to colour in 3-tenths of my gameboard in total.



- Don't you love the magic of partitioning?



Ones

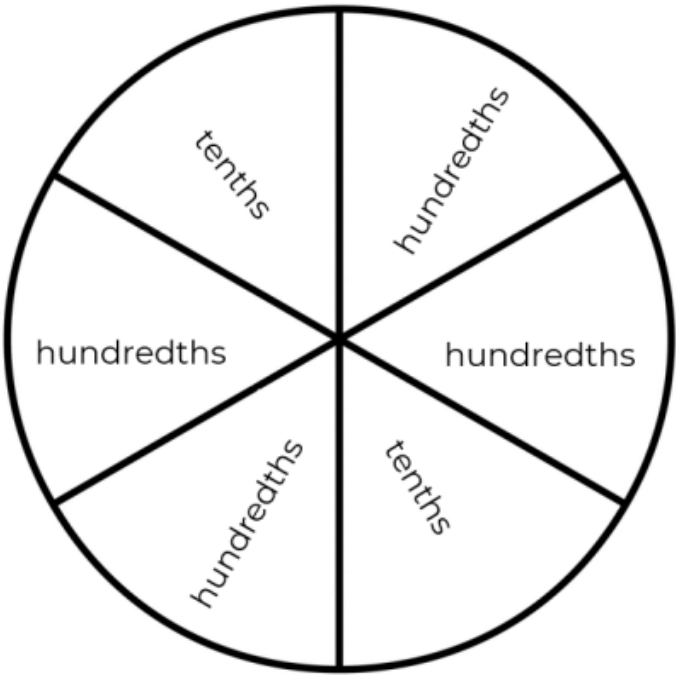
tenths

hundredths

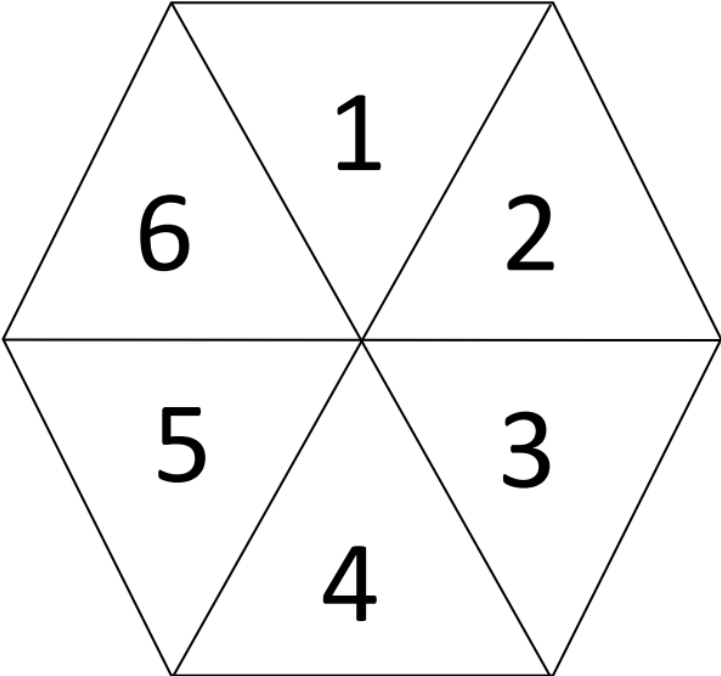
Decimat

Recording Sheet- Each player will need a copy- you can draw them up to look like this

What I rolled		What I filled in	
Fraction	Decimal	Words	Total as decimal
Eg $\frac{2}{100}$	0.02	2 hundredths	0.02
$\frac{5}{10}$	0.5	5 tenths	0.52



Spinners



Creative arts – Activity – Line up Part 2

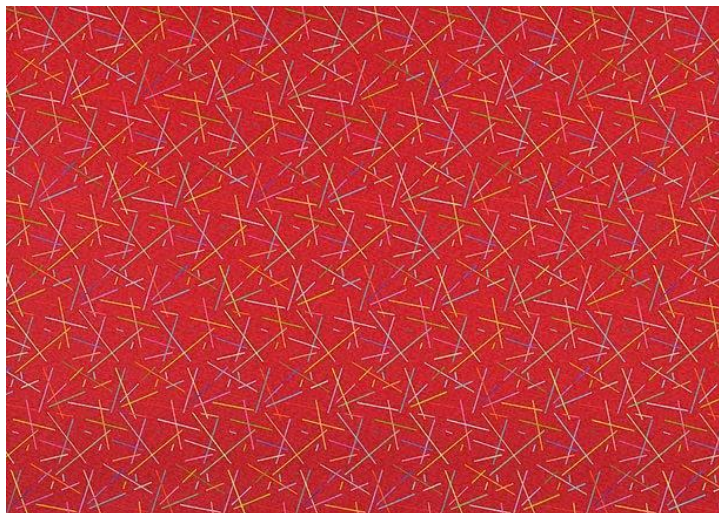


Scan the QR code to watch the teaching video Line up or read the instructions below.

Today we are learning more about 'optical art' (or 'op art').

Last week, you learnt about Australian artist Lesley Dumbrell. She loves to combine patterns with lines, shapes and repetition in a style called 'optical art'. Optical art is often nicknamed 'op art' and it usually makes an optical illusion. Optical illusions happen when our brain and eyes try to speak to each other in simple language but the interpretation gets a bit mixed-up. For more information about op art visit: <https://edu.nsw.link/tX4MSd>

In her artwork 'Spangle', Dumbrell uses patterns with shapes, colours, lines and intersections with dots and dashes.



To access the artwork 'Spangle' from the art gallery of NSW visit:

<https://edu.nsw.link/rqNNoo>

Activity: Identify op art around your home.



Find something in your home or outside that has repeated patterns like op art. The photographs above are some examples.

Choose one of the following options

Option 1: Take a photo of it.

Option 2: Draw it on a piece of paper

Musicians also use line and pattern in their works. Draw some lines on a piece of paper to represent melodies. The pitch of music rises and falls with the lines on the notes. If the line goes up, so does the pitch and when it goes down, so does the melody (or pitch). Some of the longer lines represent long notes, and the dots are short notes.



Activity: Drawing musical melodies

Listen to or sing a song that you know. Draw the lines of the melody to show the way the music rises and falls.

Optional Challenge:

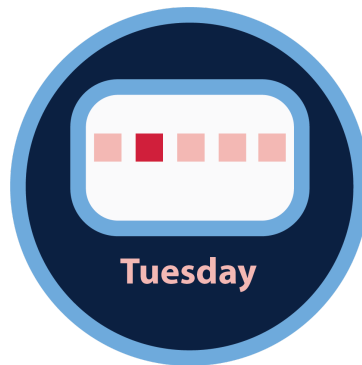
Turn your musical melody drawing into an artwork.

Home Learning – Stage 3 – Pack 8 - 2021







All video links for today can be found at:

<https://sites.google.com/education.nsw.gov.au/guided-learning-packages/week-f/week-f-stage-3/tuesday>

Day 2	
Morning	<p>English - <u>Read to Self:</u> Spend 15 – 20 minutes reading. <u>Word Work:</u> Write out your spelling list. Write definitions for five of your spelling words.</p> <p>English –</p> <ol style="list-style-type: none"> 1. Category Challenge 2. Listening - ABC kids news or Squiz Kids 3. Reading & Viewing – Mr Erasmus does the tango 4. Reading - Identifying and Analysing Similes
BRAIN BREAK	
	<p>Let's watch Education Live! This will start at 10am each day. Don't worry if you miss it, you'll be able to re-watch it at any time.</p> <p>https://education.nsw.gov.au/teaching-and-learning/learning-from-home/learning-at-home</p>
Middle	<p>Mathematics – Ninja Maths: Use a timer to see how many you get done in 5 minutes <i>or</i> see how long you take to complete each column.</p> <p>Matharoo Word Problems: Work through the Matharoo Word Problems at your level. Complete as many as you can by the end of the week.</p> <p>Mathematics –</p> <ol style="list-style-type: none"> 1. Super Shapes 2. Strike it out!
Afternoon	HISTORY - Democracy, Key Figures and Events



Things you need

Activity	You will need
Most activities	 workbook  paper  lead pencil and coloured pencils
Maths activities	 3 cups or 3 of the same objects (forks, spoons, markers or lego blocks, etc.)  paper  three different coloured markers, pens, or pencils to record your moves

During the day make sure you take time to

- do a care and connect
- take a brain break
- do some physical activity

Care and connect – What I miss most

Think about someone you miss seeing or something you miss doing.

Option 1: Draw a picture of you, and the person you miss, doing something fun. It might be something you would like to do the next time you see them.

Option 2: Draw a picture of something you miss doing. It might be a sport you play or a place you like to visit.



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Brain break – Indoor Mountaineering

*Check with someone at home before completing this activity.

Mountain climbers use their feet and hands to push and pull themselves up mountains. Pretend the floor of your house is the side of a steep mountain. You cannot stand up to move from one place to another. Can you use your feet and hands to push and pull yourself around the floor of your house? Mountain climbers use rock cracks and ledges to grab hold of to push and pull themselves. You might be able to use walls and furniture to push and pull yourself around. (Check with someone at home before using walls and furniture to push and pull yourself around)



English – Activity 1 – Speaking: Describe the setting



Look at the picture of the jungle treehouse. You are going to try to describe your treehouse aloud.

To plan what to say, brainstorm words that you could use to describe the treehouse. You could include:

- adjectives (describing words). For example, shadowy, well-hidden
- adverbs or adverbial phrases (a word or group of words that describes a verb). For example, carefully, or high in the treetops
- figurative language (for example, similes) – Carefully balanced like a tower made of cards.

Don't forget to include descriptions about colour, size and shapes. Remember to use your five senses. What can you see, hear and smell? What are the textures you can feel? Would the treehouse be fragile or strong?

Once you have planned words you could use, describe the treehouse to someone in your home. You may also like to record your description on a recording app on a phone or computer.



["Treehouse"](#) by WildOne is licensed under [CC BY 4.0](#)

Challenge

Describe the jungle treehouse using similes and metaphors.

English – Activity 2 – Reading and viewing: ‘Mr Kessel’s Bush Tucker Garden’



Today we will use the story we read yesterday, ‘Mr Kessel’s Bush Tucker Garden’, to help us with our activity.

In the text, we are going to look for verbs and adverbs.

A verb is a doing or an action word. For example, snuggled, listened, danced.

An adverb is a word that tells us more about the verb. Adverbs tell us how, where, when, to what extent and how often things happen. For example, endlessly, hesitantly, afterwards.

In the story, you will look for adverbs. Record them in your table. Then write the verb that goes with the adverb. Two examples have been done for you.

Complete the verbs and adverbs table.

Verbs	Adverbs
ran	endlessly
ask	hesitantly

Why has the author included adverbs?

English – Activity 3 – Writing: Character profile



Scan the QR code for today's lesson, or read the following information.

Look at the image of the jungle treehouse from Activity 1. Imagine this is the setting for your next story. We are going to develop some characters for our story.

Who do you think might live in your treehouse? Why do they live here? What are some things your character likes to do?

Complete a character profile for two characters in your story.

Character 1	What is your character's personality? What do they look like? How old are they?	What does your character do? What activities do they participate in?
Where do they live? Who do they live with??	Who are their friends? What do they do with their friends?	Do they work or go to school? Where?

Character 2	What is your character's personality? What do they look like? How old are they?	What does your character do? What activities do they participate in?
Where do they live? Who do	Who are their friends? What do	Do they work or go to

they live with?	they do with their friends?	school? Where?

Maths – Activity 1 – MathXplosion Magic cups



If you have access to a device watch the MathXplosion Magic cups episode from ABC iView to assist you complete the task below.

It demonstrates how we can flip cups 2 at a time to end up with them all facing down in three moves and explains the mathematics behind it.

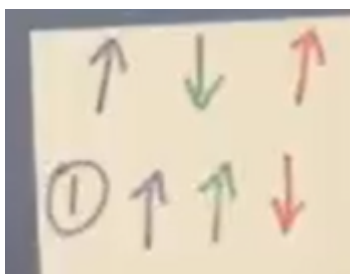


Instructions

1. Set up your three cups (or forks, spoons, etc.) So they are orientated like this:



- a. Notice how the middle cup/fork/spoon is facing down and the two outside cups/forks/spoons are facing up.
2. Your challenge is to flip pairs of cups, (you need to choose any 2 cups and turn them both over in exactly three moves) to have them all facing down
 3. Flip one pair of cups and record your move as they have here



4. Flip a second pair of cups and record your move
5. For the third time, flip a pair of cups and record your move!
6. Once you've found one way of flipping pairs of cups in exactly 3 moves, see if you can solve it starting with the cups like they are below?

Will it work in exactly 3 flips with the cups starting...



Like this?

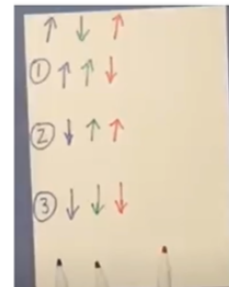


Or like this?

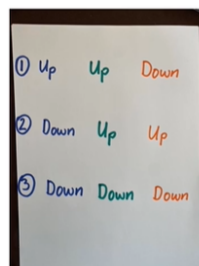
These instructions are explained in the video on the QR link here

Maths – Activity 2 – Magic cups – follow up (part 2)

The activity above ask you to record your moves using arrows.



You could have recorded it using words



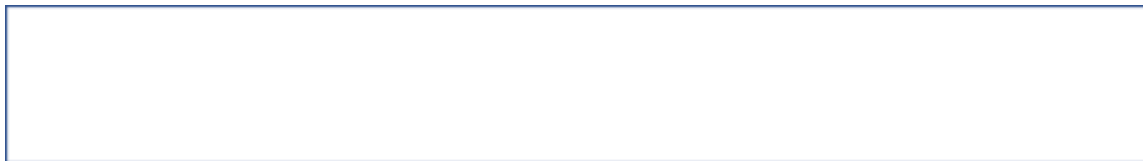
In this example it is recorded in a table. The pink shows the two cups flipped each time.

Starting position of cups	Down	Up	Down
After 1st flip	Up	Up	Down
After 2nd flip	Down	Up	Up
After 3rd flip	Down	Down	Down



Challenge:

What does the starting position need to be to get the trick to work in exactly 4 moves using 4 cups?
Or 5 cups in 5 moves? Draw the starting position here.



Create a table showing your moves to solve the task. You might do it here or in your workbook or on a computer.

HSIE – Activity – Levels of Government



Scan the QR code to watch the teaching video on Community and Remembrance or read the instructions below.



Today we are learning to distinguish the different levels of government and their responsibilities.

We actually have 3 levels of government! The three levels of Australian government all have their own unique powers.

The biggest is Australia's Federal Government and it takes care of the country as a whole. It has the responsibility of defending the nation and deals with trade with other countries. It also manages Australian money, taxes, communications and the environment.

State and Territory Governments control each of Australia's 6 States and two territories, and they have different responsibilities like health, education, mining and agriculture. They also watch over most of the police force and the courts, roads, trains and public transport.

At the bottom of the list is Local Government, and while its powers may not sound as impressive, there are more than 500 local governments in our country. They maintain local roads, deal with garbage and pets, and they're in charge of local buildings and permits.

But the country hasn't always had three levels of government. Back in the old days of Australia, the states were their own separate colonies and just governed themselves. In 1901 the Federation of Australia united the colonies into the Commonwealth of Australia. With that, the states passed many of their powers to the new federal government.

As the population grew, state governments found it hard to manage all of the responsibilities they still had. In the 1970s, local governments became popular. They were given more money and some powers of their own. That's how things still are today, and the system usually works pretty well. But every now and then there is an overlap in

responsibilities, or they disagree. That's why they have rules about who runs what and if they disagree, then federal overrules state.

That's how the three levels of government work together to keep our country running smoothly.

In your workbook answer these questions

- What are the 3 levels of government in Australia?
- What responsibilities do each level of governments have?

Optional Challenge:

Test your understanding of the three levels of government with this game from the PEO.

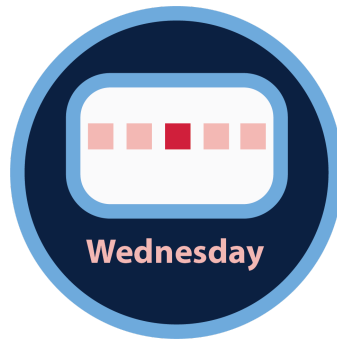
- <https://edu.nsw.link/O2xKvh>

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

All video links for today can be found at:

<https://sites.google.com/education.nsw.gov.au/guided-learning-packages/week-f/week-f-stage-3/wednesday>

Day 3	
Morning	<p>English - <u>Read to Self:</u> Spend 15 – 20 minutes reading. <u>Word Work:</u> Write out your spelling list. Write definitions for five of your spelling words.</p> <p>English –</p> <ol style="list-style-type: none"> 1. Category Challenge 2. Speaking and Vocabulary - Sandcastles 3. Reading - Creating Similes 4. Writing - First Time Simile Event
BRAIN BREAK	
	<p>Let's watch Education Live! This will start at 10am each day. Don't worry if you miss it, you'll be able to re-watch it at any time.</p> <p>https://education.nsw.gov.au/teaching-and-learning/learning-from-home/learning-at-home</p>
Middle	<p>Mathematics – Ninja Maths: Use a timer to see how many you get done in 5 minutes <i>or</i> see how long you take to complete each column.</p> <p>Matharoo Word Problems: Work through the Matharoo Word Problems at your level. Complete as many as you can by the end of the week.</p> <p>Mathematics –</p> <ol style="list-style-type: none"> 1. Same and Different 2. Hit it! <p>PDH - Why should we be active? How can we be active?</p>
Afternoon	<p>PE - Obstacle Golf - Opposite Hand</p>



Things you need

Activity	You will need
Most activities	 workbook  paper  lead pencil and coloured pencils
Brain Break	 A4 piece of paper
Maths activities	 spinner (included)  paperclip  grid paper(included)  pencils or markers

During the day make sure you take time to

- do a care and connect
- take a brain break
- do some physical activity

Care and connect – Grounding

Grounding is when we connect ourselves with the ground. We do this by connecting with the earth. Grounding is great for our mental health, improves blood flow and helps with our sleeping habits.

This activity can be done inside or outside. Take off your shoes and socks. Stand on the ground with your feet bare. Think about what you are standing on. Is it hard, soft or spongy? Is it hot, cold or warm? Take a moment to think about what you are standing on and how it feels on the bottoms of your feet. While you are thinking about it make sure you take a big deep breath.

Move to a different spot which has a different surface to stand on. Wiggle your toes and take a big deep breath and think about what you are standing on. How does it feel under your feet?

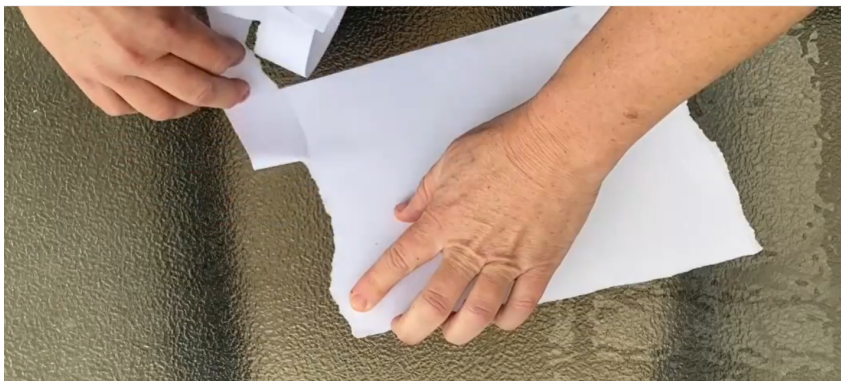
Repeat this on 2 more surfaces if you can.



[This Photo](#) by Unknown
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Brain break – Rip-a-strip

You will need a piece of paper. How long we can rip it?



Starting at the top corner of the paper, carefully rip it down to the side of paper just before the corner and then turn the paper and do the same until you get to the middle. How long is your paper?

English – Activity 1 – Vocabulary: Word chain

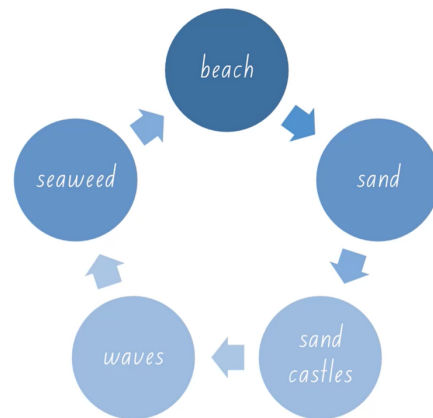


Scan the QR code for today's lesson or read the following instructions.

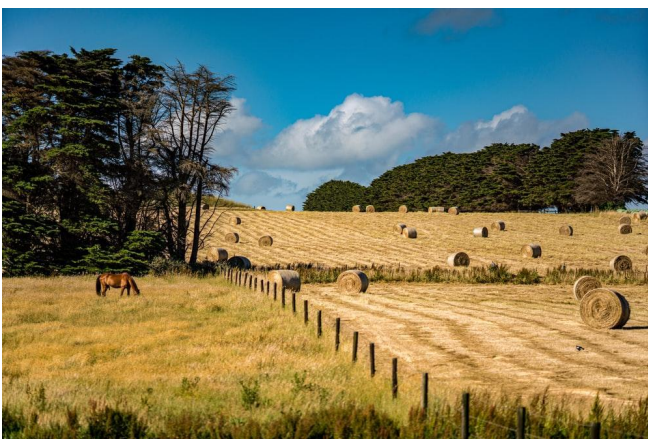
A word chain is a series of words which are linked together. Looking at this beach setting, think of five words you associate with the beach. An example has been done for you.



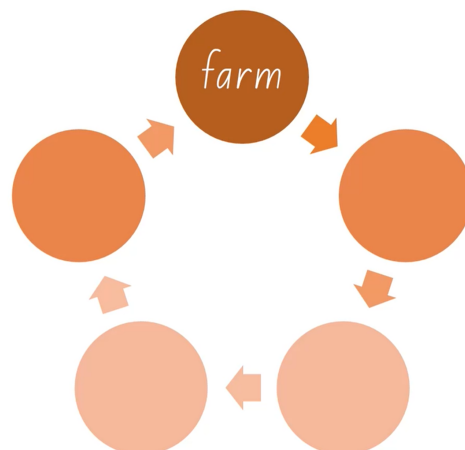
"Indiana dunes" by Pixabay is licensed under [CC BY 4.0](#)



Try to do the activity again, but this time with the word 'farm'. To challenge yourself, you might think of challenging vocabulary.

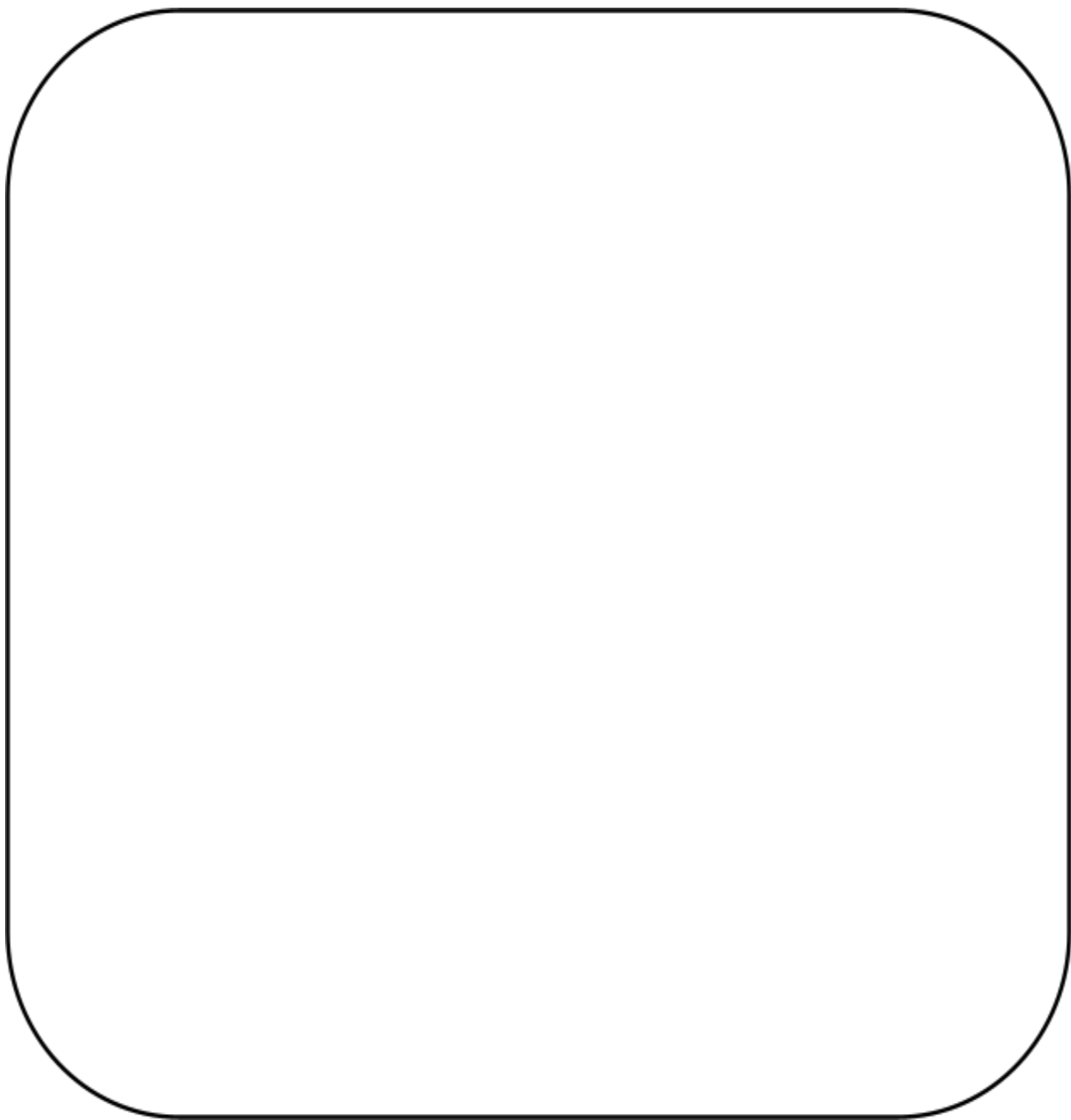


"Farm" by Wai Siew is licensed under [CC BY 4.0](#)



Challenge

Complete a new word chain for a setting of your choice.

A large, empty rounded rectangle with a black border, intended for the student to write a word chain. The rectangle is oriented vertically and has smooth, rounded corners.

English – Activity 2 – Reading and viewing: Characters and setting

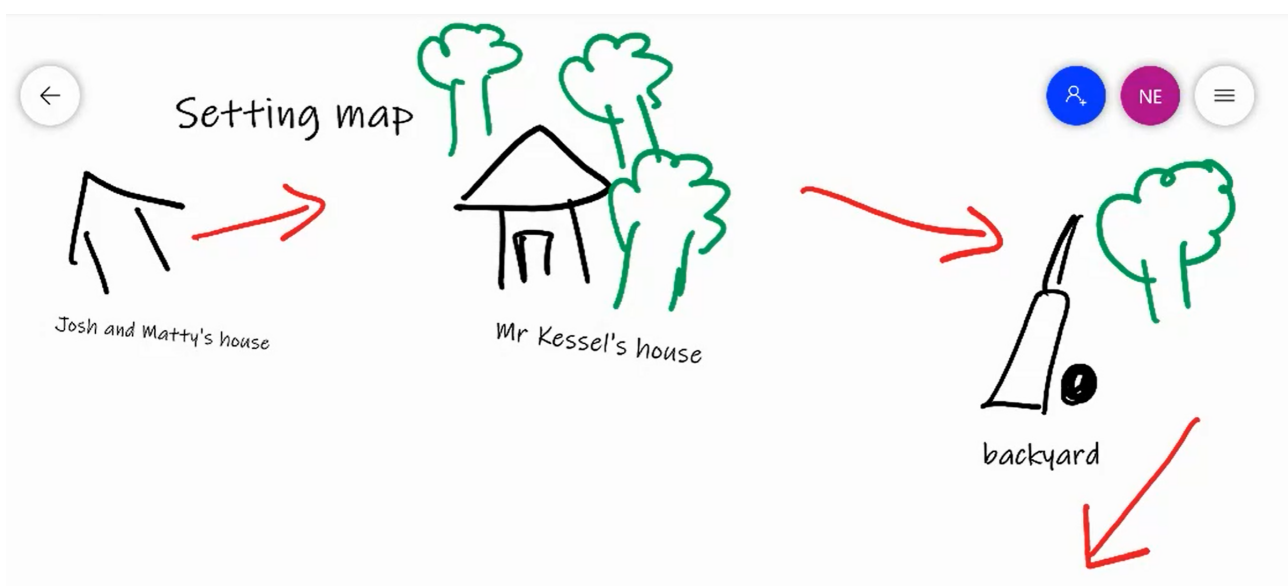


Return to the text 'Mr Kessel's Bush Tucker Garden' for today's lesson. Scan the QR code for the lesson or read on for instructions.



A setting map is a one-page diagram which shows us the places (settings) the author takes us to in the story. Think about where the story started. Draw a diagram of that location and label it. Then, where does the story go next? Draw a labelled illustration of this location and connect the two locations with an arrow.

Below you can see the example of a setting map. It has been started for you. Draw your own setting map of 'Mr Kessel's Bush Tucker Garden' in your workbook.



Draw your own setting map of 'Mr Kessel's Bush Tucker Garden' in your workbook or in the space below.

A large, empty rounded rectangle with a black outline, intended for a drawing. The rectangle has rounded corners and occupies most of the page below the instruction.



Scan the QR code if you would like to hear today's lesson, or read the instructions below.

Look at the image of the beach. Today you will use this image to help you to gather ideas and write a description of this beach.



"Indiana dunes" by Pixabay is licensed under [CC BY 4.0](https://creativecommons.org/licenses/by/4.0/)

Use your senses and think about what you might be able to see, smell and hear. Complete the planning tool below with your ideas.

Sights	Sounds	Taste
e.g. water, waves crashing	e.g. Birds squawking, lifeguards talking	e.g. salty air
Smells	Feels	Weather
e.g. sunscreen, fishy air	e.g. crunchy sand under my toes	e.g. gentle breeze


[illegible]

Maths – Activity 1 – Let's investigate



This activity needs you to watch a video. If you do not have access to a device, move onto Activity 2.

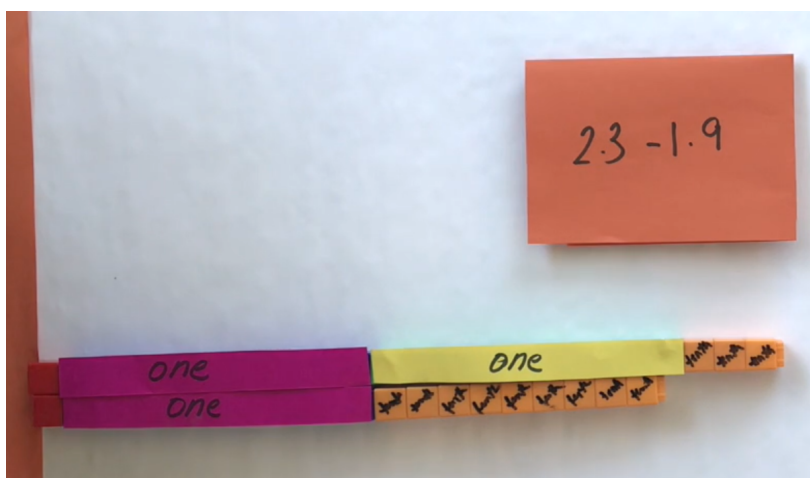
The video demonstrated to us that when subtracting, one strategy we can use to solve a problem is to adjust both numbers, so we keep a constant difference. This slide was part of the video you will remember.



$23 - 19$ is equivalent in value to:

- * $24 - 20$
- * $25 - 21$
- * $23 + 1 \text{ banana} - 19 + 1 \text{ banana} \text{ 🍌}$
- * $20 - 16$

The video then looked at decimals with the question change to $2.3 - 1.9$



Once you have watched the video. Complete the following activity below.

- Have a go at adjusting both numbers so we keep a constant difference.
- How could you use this strategy to solve 7 and 3-tenths - 2 and 9-tenths (for example)?
- What about with 3-tenths - 12-hundredths ($0.3 - 0.12$)?
- Record your thinking in your student workbook or below.

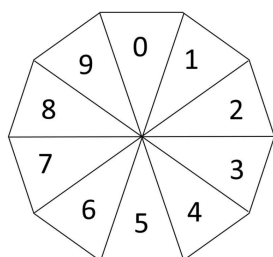
- Record your thinking in your student workbook or below.

Maths – Activity 2 – Multiplication toss

Adapted from Dianne Siemon, RMIT University



Scan the QR code for the instructions. If you don't have a device, follow the instructions below



Materials:

- Spinners (on next page)
- Paperclip for spinner
- Grid paper (on next page)
- Coloured pencils

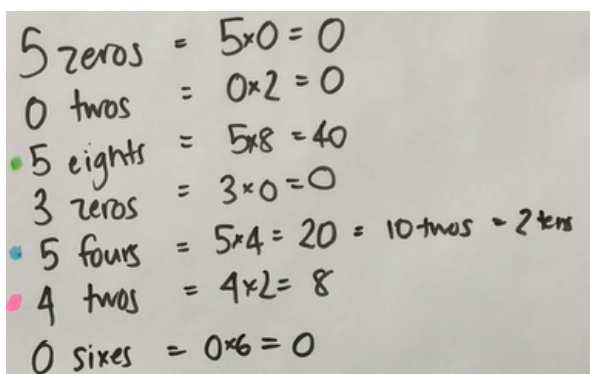
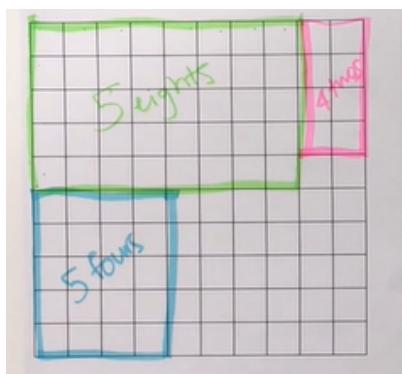
Either make a spinners or you could write the numbers 0-9 on slips of paper and put them in a bowl.



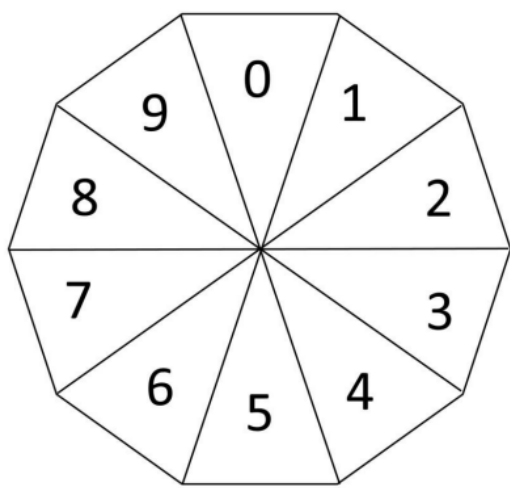
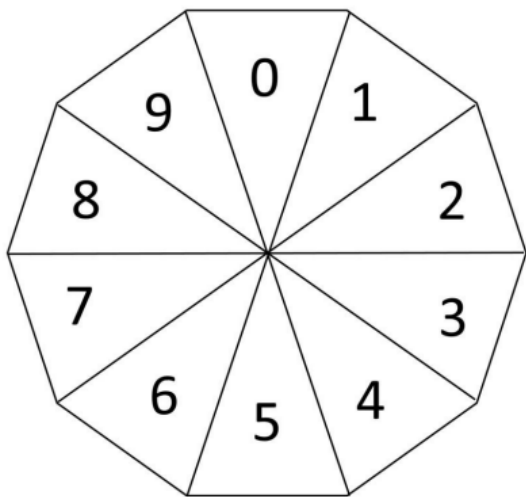
Instructions:

1. Spin or draw out 2 numbers.
2. These numbers will help you draw the region on the grid. For example, a 6 and a 4 could be recorded as 6 fours (6 rows of 4) or 4 sixes (4 rows of 6).
3. Draw your region onto the grid paper as shown. No overlaps.
4. You also need to record this on another piece of paper.
5. See how much area you can block out in 10 turns.

Eventually the space on the grid paper gets really small. Then, you have to think: What if my 3 sixes won't fit as 3 sixes or as 6 threes? You can partition (pull apart) the areas, for example, I can rename 6 sixes as 2 sixes and 1 six (if that helps me fit the block into my game board).



Multiplication toss



PDHPE – Activity – Being active at home



Scan the QR code to watch the teaching video on Being active at home or read the instructions below.

Today we are learning about the different ways to be active at home and how we can be more active at home.

- What does being active mean?

The word active means moving your body. Being active can include actively playing with your family and friends, playing sport or other exercise. Examples include jumping, kicking, riding a bike, running, wheelchair basketball and playing tag.

- What are different ways to be active at home?

You can be active both inside and outside of your home. In your workbook record the letters A-Z down your page. You might need to make 2 columns

Write a way to be active at home next to each letter. For example, a way to be active starting with A is aerobics, a way to be active starting with B could be bowling.

Write whether the activity is an inside activity or an outside activity. For example, dancing and yoga could be both an inside and outside activity.

Activity:

Create a 2 minute 'being active' video that your class could use to be more active at home. Before you start: decide if your being active video will be using inside or outside activities.

1. In your workbook (or on the next page) - plan the different activities you will have in your video. You could use some ideas from the A-Z active alphabet.
2. Record or list how many times to perform each activity. The video needs to go for 2 minutes.
3. Practise your activities. You may decide to make changes to the order.
4. Present your video: choose 1 option

Option 1: Record yourself performing the activities

Option 2: Make a slideshow with pictures of the activities and record your voice giving the instructions

Option 3: Write an instruction sheet with the order of the activities. Don't forget to draw pictures of each activity

Follow your video each day to "be active". You could ask someone in your family to do it with you.

Plan the different activities you will have in your video. You could use some ideas from the below A-Z active alphabet.

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

Possible answers for A-Z being active activity:

A-Z of being active at home

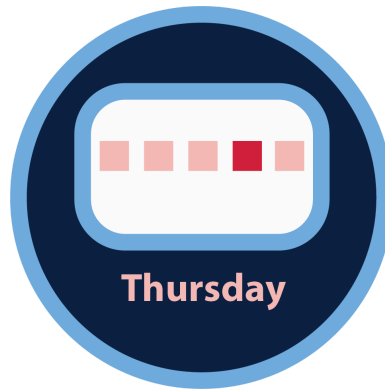
A Aerobics Inside or outside	B Bike riding Outside	C Cricket Outside	D Dancing Inside or outside	E Egg and spoon race Inside or outside	F Football Outside
G Golf Outside	H Handball Inside or outside	I Indoor soccer Inside	J Jogging Outside	K Karate Inside or outside	L Lunges Inside or outside
M Marching Inside or outside	N Netball Outside	O Obstacle course Inside or outside	P Push ups Inside or outside	Q Quick walking Inside or outside	R Running Outside
S Skipping Inside or outside	T Tennis Outside	U Ultimate frisbee Outside	V Volleyball Outside	W Walking Inside or outside	X X - country Outside
Y Yoga Inside or outside	Z Zumba Inside or outside				

Home Learning – Stage 3 – Pack 8 - 2021









All video links for today can be found at:

<https://sites.google.com/education.nsw.gov.au/guided-learning-packages/week-f/week-f-stage-3/thursday>

Day 4	
Morning	<p>English - <u>Read to Self:</u> Spend 15 – 20 minutes reading. <u>Word Work:</u> Write out your spelling list. Write definitions for five of your spelling words.</p> <p>English –</p> <ol style="list-style-type: none"> 1. Category Challenge 2. Vocabulary - Word Cline 3. Reading and Viewing - The Sea (Part 1) 4. Writing - Simile Poems (All About Me)
	BRAIN BREAK
	<p>Let's watch Education Live! This will start at 10am each day. Don't worry if you miss it, you'll be able to re-watch it at any time.</p> <p>https://education.nsw.gov.au/teaching-and-learning/learning-from-home/learning-at-home</p>
Middle	<p>Mathematics – Ninja Maths: Use a timer to see how many you get done in 5 minutes <i>or</i> see how long you take to complete each column.</p> <p>Matharoo Word Problems: Work through the Matharoo Word Problems at your level. Complete as many as you can by the end of the week.</p> <p>Mathematics –</p> <ol style="list-style-type: none"> 1. reSolve Bakery 1 2. reSolve Bakery 2 3. reSolve Bakery 3 <p>GetActive@Home - Striking</p>
Afternoon	<p>SCIENCE & TECHNOLOGY -</p> <p>Representing Numbers and Representing Letters</p>



Things you need

Activity	You will need
Most activities	 workbook  paper  lead pencil and coloured pencils
Physical activity	 A medium-sized ball that bounces (like a basketball)  Timer Water bottle
Maths activities	 Square grid paper (included)  Triangular grid paper (included)  4 different coloured highlighters, pencils, markers or pens

During the day make sure you take time to

- do a care and connect
- take a brain break
- do some physical activity

Care and connect – Mindfulness Listening

Sometimes we forget to slow down and engage with the world around us. Today we are going to spend some time sitting outside and listening. Find a quiet spot, it may be in your garden, on your balcony or front porch or even next to an open window.

Close your eyes. And think about:

What noises do you hear?

Can you identify them?

Do they sound close by or far away?

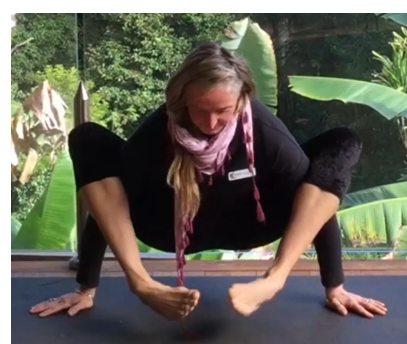
Do you often hear these noises? If not, why do you think you don't notice them?

What is your favourite sound you heard?

When you have finished go and tell one someone at home about the noises you heard.

Brain break – Stretching – Balancing Poses

Try these balancing poses:



Physical activity – Bouncing and Dribbling

Scan the QR code to watch the teaching video Bouncing and Dribbling or read the instructions below.



Today you are working on your bouncing and dribbling skills.

1. Collect the items you need (see the things you need list).
2. Warm up your body – Run on the spot for 30 seconds, star jumps for 30 seconds, squats for 30 seconds, jumping side to side for 30 seconds. Spend 3 minutes stretching your muscles.
3. Practice your one hand dribbling. Remember to control the ball and make the bounce come to waist height.
4. Using your 1 hand dribble walk forward and backward while bouncing the ball. Walk forward 5 steps and backward 5 steps. With each step bounce the ball (5 steps = 5 bounces).
5. Can you spell words while walking and bouncing? Spell your first name while walking forward and then spell your last name walking backwards? Think of some other words you can spell. How many words can you spell in 30 seconds?
6. Practice your crossover dribbling. Remember to bounce the ball in a V shape.
7. Using your crossover dribble take a large step and bounce the ball between your legs. Take another step and bounce the ball between your legs. Can you take 4 large steps forward and bounce the ball through your legs each step? How many crossover dribble steps can you take in 30 seconds?



8. Make up your own bouncing and dribbling walking/stepping challenge. Challenge someone at home to do it too!

English – Activity 1 – Vocabulary: Predict the language



Scan the QR code if you would like to view the lesson.

Look at this image of a pretend book cover.



["Dragon cliffs"](#) by [Kellepics](#) is licensed under [CC BY 4.0](#)

If this was a book, what words do you think might appear in the story?

- Nouns – naming words. These are usually things we can touch and see. What would you be able to see in the story?
- Adjectives – describing words. What words could be used to describe the cliffs and the dragons?
- Verbs – action words. What might the characters be doing?
- Adverbs – add more meaning to the verbs. How is the dragon flying?

Brainstorm words that you think may be found in this story.

Nouns	Adjectives	Verbs	Adverbs
e.g. dragons, cliff	e.g. steep, icy cold	e.g. fight, battle	e.g. magically, aggressively

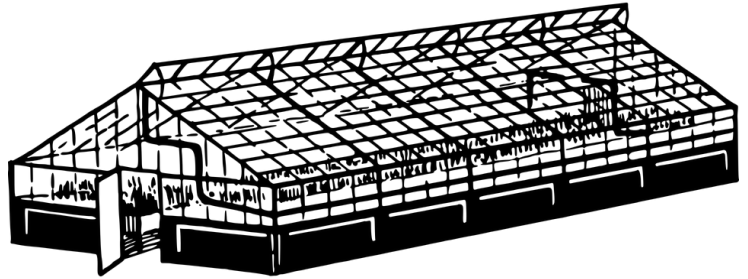
English – Activity 2 – Reading and viewing: ‘Mr Kessel’s Bush Tucker Garden’



Scan the QR code to view the lesson, or read the following instructions.

Today's focus will be on the greenhouse you read about in the story ‘Mr Kessel’s Bush Tucker Garden’.

A greenhouse is a place where plants are grown. The roof is see through to let in lots of light. It also keeps the plants warm and protects them from the weather.



"Image" by [OpenClipart-Vectors](#) is licensed under [CC BY 4.0](#)

What nouns and adjectives could you use to describe the greenhouse? Complete the table.

Nouns		Adjectives	
building		small	
walls		see through	
markers		plastic	

In your workbook, use your ideas from the table to write a description of the greenhouse. You could include information about what it looks like. Where is it located? What will you find inside the greenhouse?

Challenge

Use similes and metaphors to help your reader get a clear image in their mind of your greenhouse.

English – Activity 3 – Story Ingredients



Scan the QR code to watch the 'Story ingredients' video featuring author Deborah Abela.

In this interesting video, Deborah shared her three story ingredients.

- **Characters** – Who is in your story? Why are they interesting?
- **Settings** – Where does your story take place? Is it somewhere intriguing or interesting?
- **Problems** – find things to go wrong!

She suggested that the secret to writing interesting stories, is to be good at making trouble. You need to have interesting problems. You also need to think about what your character wants.

Today you will plan lots of great story ideas. In your workbook, create the following table. You need three columns with the headings - Character, Setting, Problem. Write down as many different ideas as you can under each of the headings.

You will use this plan for your narrative writing tomorrow so try to think of as many ideas as you can!

Different Character ideas	Interesting Setting ideas	Troubles/ Problems
Magical puppy Evil dentist.	Jungle treehouse Opera House	The school disappears. You lose your voice before your singing concert.

Challenge

Think about a twist in your story. What is something that will take the reader by surprise?

This image shows a single sheet of white paper with horizontal black ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

Maths – Activity 1 – Spirolaterals – part 1 and 2

Adapted from youcubed



Get ready to make your own spirolaterals! If you have a device scan the QR code to watch how we can make spirolaterals using paper, number some coloured markers. If you don't have access you can use the instructions and diagrams below.

Your grid paper is on the following pages.



How to make a spirolateral

1. Pick a colour for each direction and draw it at the top of your page.



2. Choose the numbers you are going to use in your spirolateral.

Here is a list of numbers that you might like to try. You can see there are 3 sets of numbers with an odd amount of numbers and 3 sets of numbers with an even amount of numbers. We are looking for patterns.

Odd amount of numbers

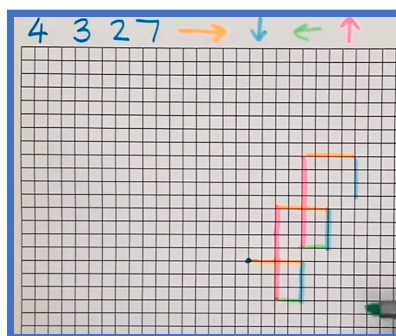
1, 4 and 2 3 numbers (odd)
7, 5 and 3 3 numbers (odd)
1, 5, 2, 4 and 3 5 numbers (odd)

Even amount of numbers

1 and 4 2 numbers (even)
5, 6, 1 and 2 4 numbers (even)
8 and 7 2 numbers (even)

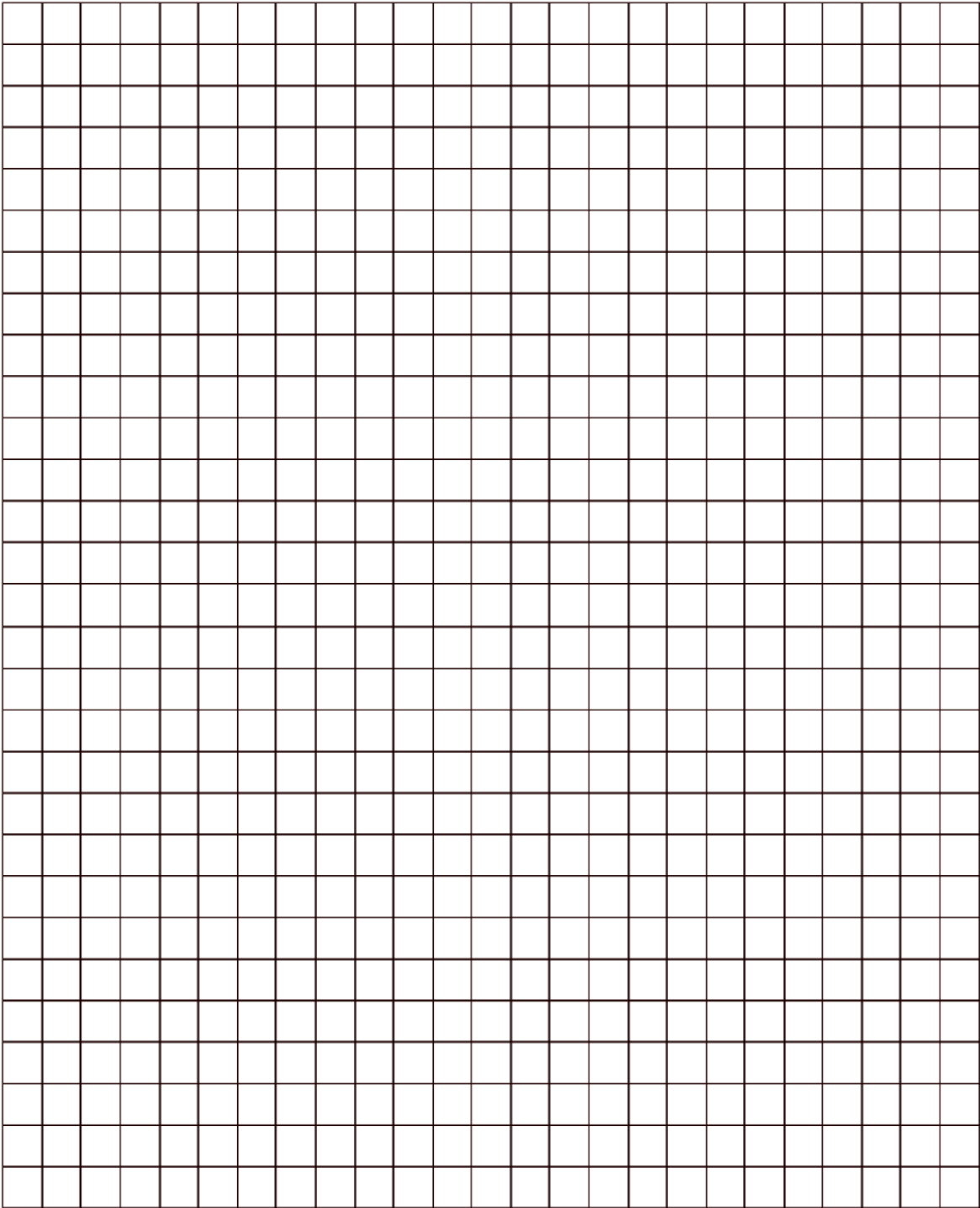
3. Choose a point on your page to start and spiral through your first set of numbers. If you were doing the numbers above your first list would be 1,4 and 2
4. Continue and spiral through your list again. Make sure you keep using all four colours.
5. Continue until you return to the start or are convinced that your spirolateral will not return to the start.

This picture shows the numbers 4,3,2 and 7 being spiralled through over and over again.



What do you notice about your spirolaterals? Record what are noticing.

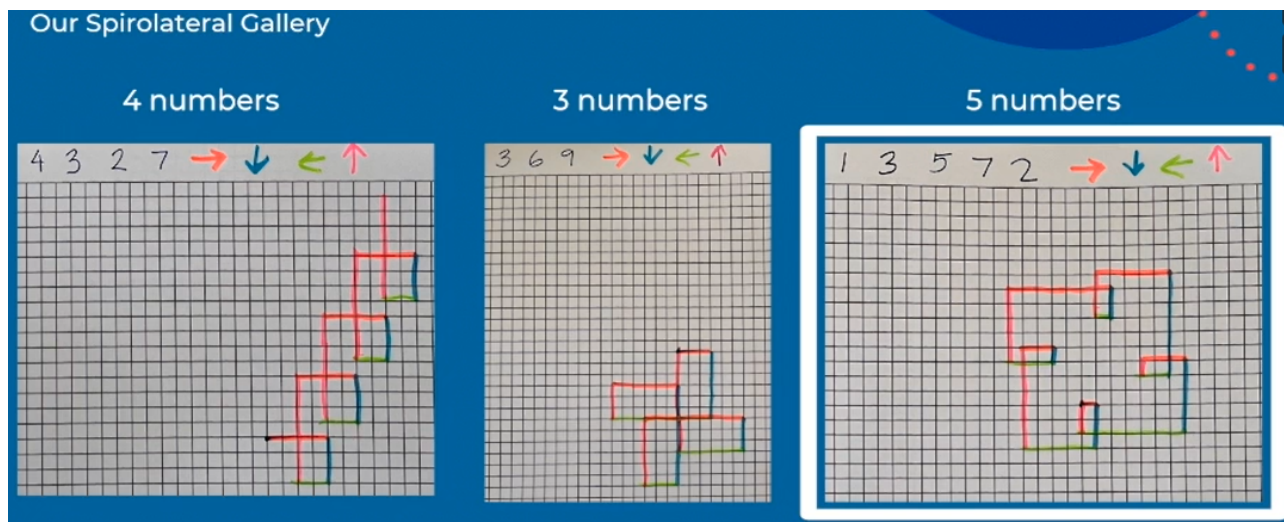
Grid paper for Spirolateral activity





Once you have completed your spirolaterals look at the images below.

Here are 3 different spirolateral using different amounts of numbers.



If I look at this I might notice that the spirolateral created with an even amount of numbers did not return to its starting point.

The spirolaterals with an odd amount of numbers did return to its starting point.



Challenge:

- Can you find an example of where an odd amount of numbers forms a spiral that **doesn't** return to its starting point?

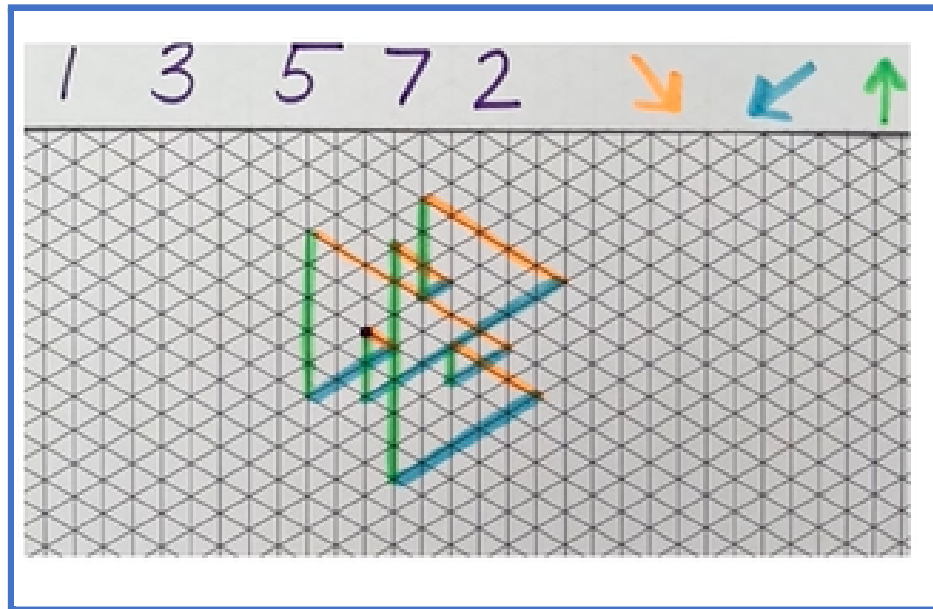
There is some more grid paper on the next page to experiment with.

This image shows a full page of blank graph paper. The grid consists of small, equal-sized squares formed by thin black lines. There are 20 columns and 20 rows of squares, creating a total area of 400 small squares. The grid covers the entire page, leaving no margins or other markings.

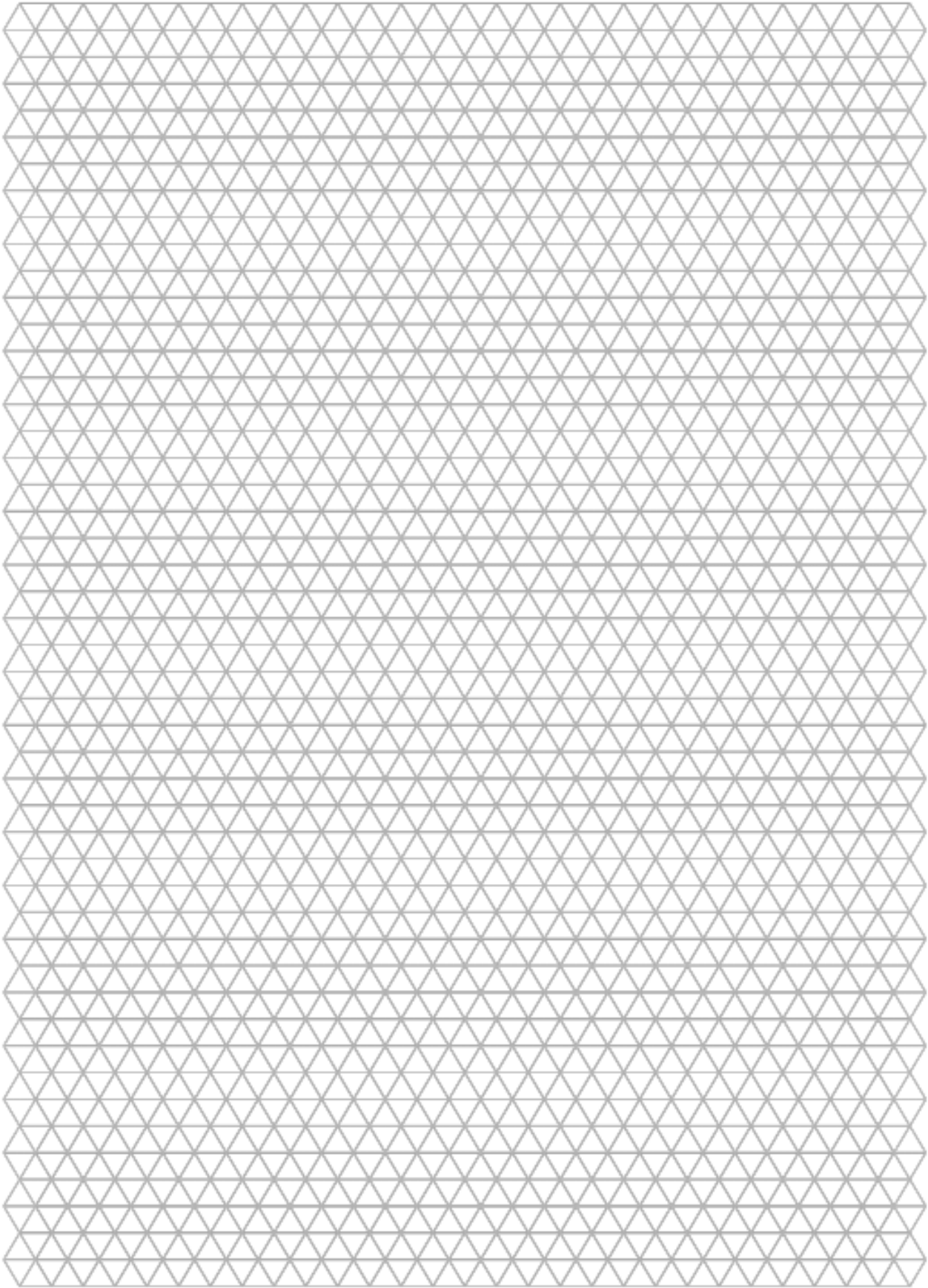
Maths – Activity 2 – Spirolaterals – part 3 and 4

What happens if we use different paper to create spiorlaterals?

If we use triangular paper we will only need 3 coloured markers and can set it out like this picture looking at the different directions.



Experiment using odd and even amounts of numbers. Does our theory about odd and even amounts, and whether they make a spirolateral return to its starting point, hold true for triangular paper as well? Record your thinking.



Science and Technology – Option 1 – How on Earth do animals survive?



Scan the QR code to watch the teaching video on

How on Earth do animals survive or read the instructions below.

Today we are learning about how animals adapt to survive.

Have you wondered why some animals live in a particular environment, while other animals need to live in a different environment? Or what helps animals survive in their habitat?

Animals have structures and behaviours that help them to survive. We call them structural adaptations and behavioural adaptations. Adaptation means that they change something about themselves to help them survive in the environment (or place) they live in. Every animal makes structural and behavioural adaptations in order to survive.

Structural adaptations are physical features, for example the colour of feathers for camouflage, the hard plates on the back of a slater or the hairs in a spider's leg to detect air movement.

Behavioural adaptations are what the animal does to increase its chances for survival. For example, reptiles bask (sunbake) to absorb the sun's energy, nocturnal frogs use the darkness to hide from predators and avoid the harsh, drying sunshine.

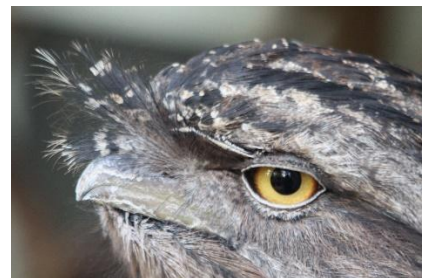


Activity: In your workbook -

Choose one of the following options:

Option 1 – Animals living near your home.

- Create a table with 2 boxes.
- Choose 2 animals you have living near your home (eg birds, lizards, etc). Write one animal in each box and draw a picture of the animal.





- Identify 2 adaptations (structural or behavioural) of the animals. You may need to research this. Type: 'how do _____ adapt to their environment' into google. (Put the name of your animal into the blank space).
- Write 2 adaptations the animal has made. Write if it is a structural adaptation or a behavioural adaptation.
- Explain how each adaptation helps the animal to survive.
- Create an informative report that describes the animal's adaptation. You might like to create a labelled diagram, a mind map, a poster or even video a short documentary style report.

Option 2 - Research

- Research one of the following animals - echidna, koala or kangaroo.
- Create an informative report that describes the animal's adaptation. How has this helped the animal to survive in Australia? You might like to create a labelled diagram, a mind map, a poster or even video a short documentary style report.

Optional Challenge:

Research: Investigate an animal that has become a pest in Australia. For example, cockroaches, pigeons, rabbits and foxes.

Explain why the structural and behavioural adaptations of this animal help it to not only survive, but to thrive. You might like to create a labelled diagram, a mind map, a poster or even video a short documentary style report.

Science and Technology – Option 2 – How on Earth do plants survive?



Scan the QR code to watch the teaching video on How on Earth do plants survive or read the instructions below.

Today we are learning about how plants adapt to survive.

Have you wondered why some plants survive in an environment but other plants do not? What helps plants survive in their habitat?

Plants, just like animals, have structures and behaviours that help them to survive. We call them structural adaptations and behavioural adaptations. Adaptation means that they change something about themselves to help them survive in the environment (or place) they live in. Every plant has structural and behavioural adaptations in order to survive.

Structural adaptations are the physical features of the plant. The size and shape of leaves will be different depending on the habitat of the plant. Some plants have spines for protection against being eaten. Many plants use small spikes and hooks on seed casings. The hooks and spikes catch on the fur of a passing animal and help to spread the seeds to new habitats.

Behavioural adaptations are how the plant grows to increase its chances of survival. For example, some plants grow rapidly to compete for sunlight. Plants may use 'runners' that grab onto other plants for support.

Activity: In your workbook (or on the following page) - Choose one of the following options:

Option 1 – Plants living near your home.

- Create a table with 2 boxes.
- Choose 2 plants you have growing near your home (eg casuarina, dandelion, etc). Write one plant in each box and draw a picture of the plant.
- Identify 2 adaptations (structural or behavioural) of the plants. You may need to research this. Type: 'how do _____ adapt to their environment' into google. (Put the name of your plant into the blank space).
- Write 2 adaptations the plant has made. Write if it is a structural adaptation or a behavioural adaptation.
- Explain how each adaptation helps the plant to survive.
- Create an informative report that describes the plant's adaptation. You might like to create a labelled diagram, a mind map, a poster or even video a short documentary style report.



Option 2 – Research

- Research one of the following plants, the Sturt desert pea, Golden Wattle (Acacia) or the Mulga tree.
- Create an informative report that describes the plant's adaptation. How has this helped the plant to survive in Australia? You might like to create a labelled diagram, a mind map, a poster or even video a short documentary style report.

Optional Challenge:

Research: Investigate a plant that has become a pest in Australia. For example, privet, bindii, Patterson's curse.

Explain why the structural and behavioural adaptations help it to not only survive, but to thrive. You might like to create a labelled diagram, a mind map, a poster or even video a short documentary style report.

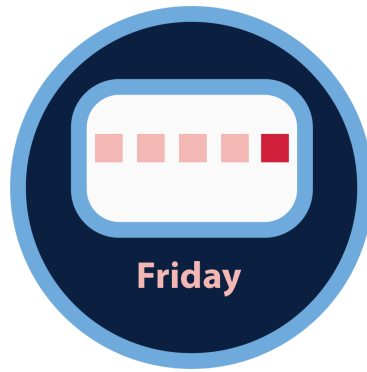
This image shows a single sheet of white paper with horizontal blue or grey ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

Home Learning – Stage 3 – Pack 8 - 2021








All video links for today can be found at:

<https://sites.google.com/education.nsw.gov.au/guided-learning-packages/week-f/week-f-stage-3/friday>

Day 5	
Morning	<p>English - <u>Read to Self:</u> Spend 15 – 20 minutes reading. <u>Word Work:</u> Write out your spelling list. Write definitions for five of your spelling words.</p> <p>English –</p> <ol style="list-style-type: none"> 1. Category Challenge 2. Vocabulary – Synonyms and antonyms 3. Reading and Viewing - The Sea (Part 2) 4. Writing - 'Waiting' poem
BRAIN BREAK	
	<p>Let's watch Education Live! This will start at 10am each day. Don't worry if you miss it, you'll be able to re-watch it at any time.</p> <p>https://education.nsw.gov.au/teaching-and-learning/learning-from-home/learning-at-home</p>
Middle	<p>Mathematics – Ninja Maths: Use a timer to see how many you get done in 5 minutes <i>or</i> see how long you take to complete each column.</p> <p>Matharoo Word Problems: Work through the Matharoo Word Problems at your level. Complete as many as you can by the end of the week.</p> <p>Mathematics –</p> <ol style="list-style-type: none"> 1. Pentominoes 2. Pentominoes - Area vs Perimeter
Afternoon	<p>STEM - Build a Bridge Challenge</p>



Things you need

Activity	You will need
Most activities	 workbook  paper  lead pencil and coloured pencils
Brain Break	 Timer
Maths activities	 A book, magazine or newspaper with written text in it  paper  pens
STEM	20 sticks of spaghetti pasta tape string small toy, such as a LEGO person, to be at the top ruler scissors

During the day make sure you take time to

- do a care and connect
- take a brain break
- do some physical activity

Care and connect – Tap and Wink

Can you wink with your right eye and tap your left shoulder?

Can you wink with your left eye and tap your right shoulder?

Can you do these one after the other?

Can you do 10 in a row?

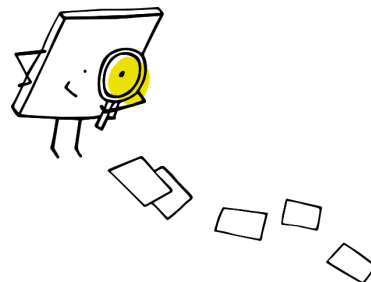


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Brain break – Scavenger Hunt

Can you find all of these items in one minute?

- sock
- toothbrush
- piece of fruit
- spoon
- pencil



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English – Activity 1 – Listening: KidsNews ABC



Scan the QR code and listen to the five stories on 'KidsNews ABC'. If you can't listen to these stories, listen to or read a different story. You could ask a family member to tell you a story, or you could listen to an audio book of your choice.



["KidsNews ABC"](#) by [KidsNews ABC](#) is licensed under [CC BY 4.0](#)

In your workbook, write down two interesting facts from each story.

Challenge

Think of a story that could be told on ABC KidsNews and write it.

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

English – Activity 2 – Reading and Kessel’s Bush Tucker Garden’



viewing: ‘Mr Predictions

We will re-visit the text ‘Mr Kessel’s Bush Tucker Garden’ for today’s lesson.

Predict what you think will happen to each of the characters in 10 years’ time. What do you think they will be doing? Where do you think they will be living? What jobs will the boys have? Draw or write your predictions.

For example:

- Mr Kessel – will have set up a free weekend workshop to teach people how to grow and cook from the garden.
- Matty – he will be a gardener running his own business

If you can, justify your answers by explaining why you have made those predictions.

Character	Predictions
Mr Kessel	
Josh	
Matty	
Mum	
Lola	

Challenge

Write a story about one of the characters’ lives in 10 years’ time.

English – Activity 3 – Writing: 3 Box Selection



Scan the QR code to view today's lesson, or read the following information.

Yesterday you completed a table with ideas for characters, settings and problems. Today you will write a narrative using your ideas. From yesterday's list, choose a main character, where you would like your story to be set and the problem in your story.

Before writing, you need to plan your ideas. Remember that narratives include an orientation, complication and a resolution (beginning, middle, end).



In your workbook, complete a planning table with your ideas

Orientation	Complication	Resolution
<ul style="list-style-type: none">• When (time)• Where (setting)• Who (characters)	<ul style="list-style-type: none">• Event or events that start the action• Event or events that happen when the character tries to solve the problem	<ul style="list-style-type: none">• How is the problem solved?• How does the story end?

You are now ready to write your narrative in your workbook. Remember to include:

- Different types of sentences - simple, compound and complex. Try to use a range of sentence beginnings.
- Adjectives and similes - Help your reader get a clear picture in their mind.
- Dialogue - Can your characters speak? Include interesting spoken text.
- Paragraphs – remember to group your ideas.
- Range of punctuation – full stops, exclamation marks, speech marks.
- Interesting vocabulary – use attention-grabbing words. Can you use a different word to explain your character walking? For example, dawdled, sauntered, ambled.

Re-read your writing to ensure you have included detail. Don't forget to check your spelling and punctuation are correct.



Narrative writing space:

[illegible]

Challenge

Try and include figurative language in your narrative - similes, metaphors, alliteration and onomatopoeia. Think about the backstory of your main characters - why do your characters behave the way they do?

Maths – Activity 1 – Scrabble stats – part 1

Adapted from reSolve



In this activity you are going to investigate the game of Scrabble, which was developed in 1933 by Alfred Butts. The scoring system was developed based on the number of times a letter was used in text. Letters that occur frequently are worth less points than letters which do not occur often.

Do you think the frequency of letters may have changed since the 1930s?

If you have access to a device, scan the QR code to watch the video or you can read the instructions below.



Here is a table showing the current point scoring system in Scrabble. In the thought bubble write in some of the things you notice and wonder. Which letters score highest and which lowest. Why do you think this is?

Tile	Point Value
BLANK	0
A	1
B	3
C	3
D	2
E	1
F	4
G	2
H	4
I	1
J	8
K	5
L	1
M	3

Tile	Point Value
N	1
O	1
P	3
Q	10
R	1
S	1
T	1
U	1
V	4
W	4
X	8
Y	4
Z	10

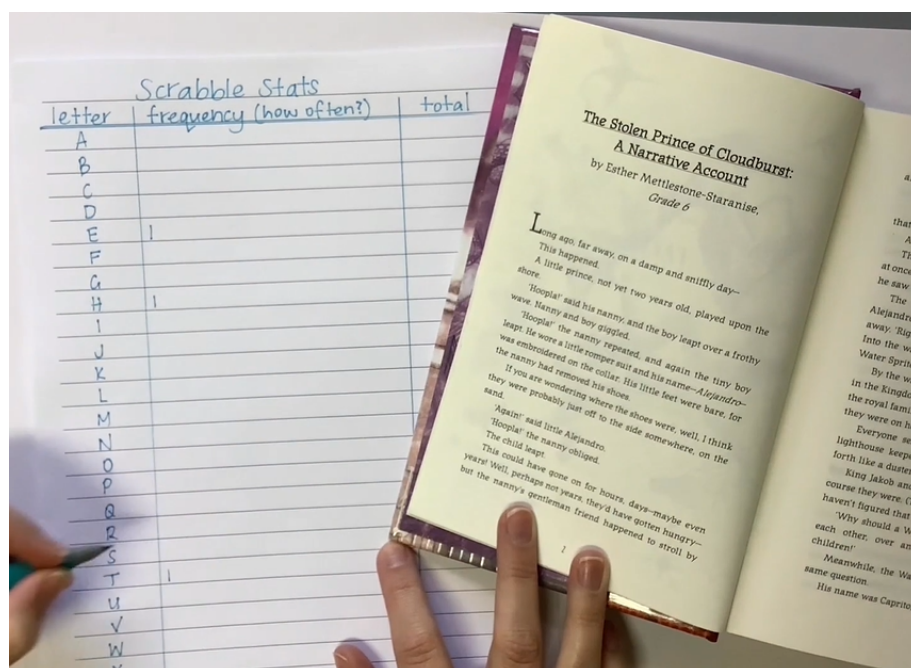


To complete this task we will need to see how often letters are used in today's texts.

- Find a recent newspaper, magazine or book. Choose a paragraph or page to analyse.



Create a table to record your findings. Here is a picture of how to set it up. You will need a column for letters. A column to tally and finally a column for the total.



You can see here the first word is “The” so there is one tally in the t, one in the h and one in the e column.

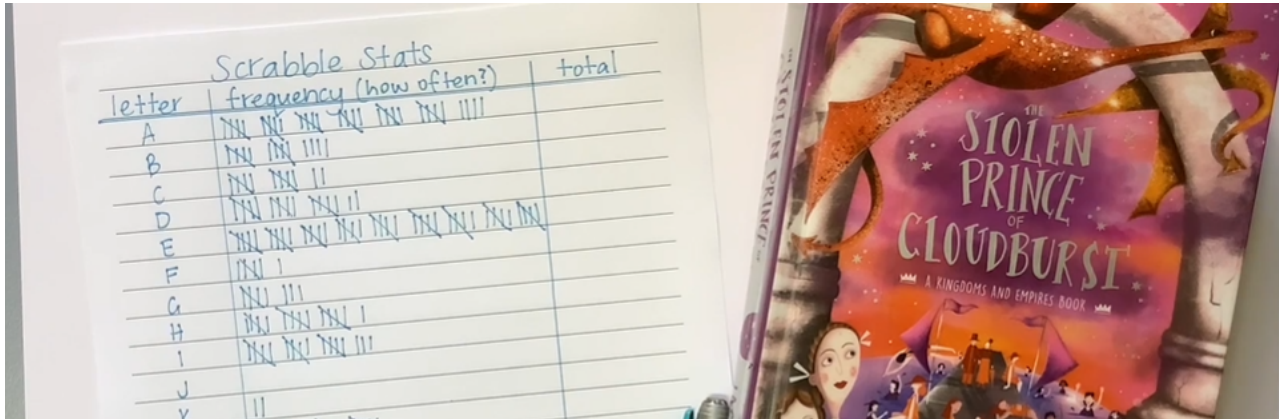
- For each letter in the text you are analysing, record the frequency in your table using tally marks.
- How many times was each letter used in the text you investigated?

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



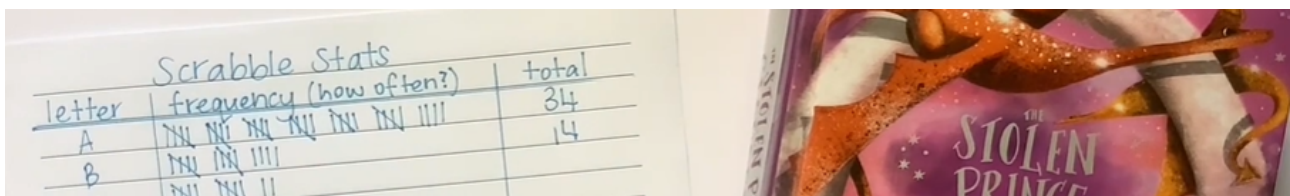
Maths – Activity 2 – Scrabble stats – part 2

For this activity you will need the table you created in the last activity. This will be used to help you update the scoring system for the 21st Century.



letter	frequency (how often?)	total
A		
B		
C		
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
N		
O		
P		
Q		
R		
S		
T		
U		
V		
W		
X		
Y		
Z		

Once you have a tally write the total in the final column



letter	frequency (how often?)	total
A		34
B		14
C		
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
N		
O		
P		
Q		
R		
S		
T		
U		
V		
W		
X		
Y		
Z		



Next you need to compare your results with the original scoring system. Complete the questions below;

- What do you notice about the frequency of the letters on your tally sheet?
 - Does anything surprise you?
 - Which letters were you expecting to be used most? Or least?
- Look at the letters that are most frequent (have the highest number) and least frequent (have the lowest number). Compare your data with the original Scrabble scoring system.
 - Are there any similarities?
 - Are there any differences?

- Using your Scrabble Stats findings, identify which letters you think should now be given the highest and lowest scores.
- Add a column to the right of the Classic Scrabble scoring system. In this column use your tally to decide which letters you think should be allocated which points.

letter	frequency (how often?)	total
A		84
B		14
C		12
D		17
E		45
F		6
G		8
H		16
I		18
J		0
K		2
L		20
M		5
N		31
O		27
P		13
Q		0
R		21
S		16
T		32
U		5
V		3
W		6
X		0
Y		15
Z		0

	Classic Scrabble
1 point	A E I L N O R S T U
2 points	D G
3 points	B C M P
4 points	F H V W Y
5 points	K
8 points	J X
10 points	Q Z

This activity demonstrated how to pose questions and make predictions. Using tables and tally marks helped to efficiently collect and organise data. Conclusions about which letters were most and least frequent were able to be made.

Challenge activities

- Represent the data you collected in a column graph or a different data display. You may like to use Excel.
- You can also repeat your investigation with a different text.
 - Does the type of text we select change the letter frequencies?
 - What are some similarities and differences between both data sets?

STEM – Pasta Tower Challenge



Challenge

Design and build the tallest free-standing tower out of pasta, tape and string. The tower must be able to hold a small toy at the top.

Rules

1. You can only use the materials on the list
2. Your tower needs to be able to stand up by itself
3. The ruler is only for measuring and cannot be used in the tower structure
4. The toy needs to be at the top of the tower

Materials allowed

- 20 sticks of spaghetti pasta
- tape
- string
- small toy, such as a LEGO person, to be at the top
- ruler and scissors



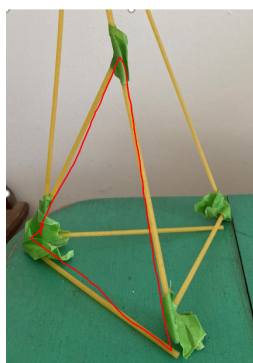
Instructions

- Read the rules.
- Collect materials and think about how they could be used for the challenge.
- Record your ideas and results in your workbook.

Step 1: Brainstorm and design your tower

- Sketch some designs in your Workbook
- Think about how you are going to attach the toy to the top of the tower
- Does your design meet the challenge rules?
- Which solution are you going to trial? Why did you choose that solution?

Tip: think about ways to get pasta to stand up by itself and to support weight of the toy. Remember, triangles are a strong shape.



Step 2: Time to build! Make and test your tower

- Build your tower
- Make your design and test it. Does it stand up? Can it hold the weight of the toy?
- Draw or take a photo of your design
- Why do you think it did/did not work?
- What else could you try?

Step 3: Test, improve and present

- Redesign your tower. What improvements did you make? Note this on your drawing
- How many times did you test your design?
- Did you meet the challenge?



Optional Challenge:

Too easy?

How much weight can your tower hold? Keep adding weights until it collapses!
Use more pasta and see how tall you can make the tower

Like building?

Architects are people who plan and design buildings. They think about where the building is being made, what materials to use and how the building will be used. Watch this clip about architecture Kid Architects - Classroom - BTN - <https://edu.nsw.link/IM9jgk>

Year 5 Term 4 Week 2 SMART Spelling Name: _____

Focus: Digraph 'ar' & quadgraph 'ough' say or as in warm and bought

Write on the lines.	Say the word, write the word on Day 1	Say the word, write the word on Day 2	Say the word, write the word on Day 3	Say the word, write the word on Day 4
Red Words				
warm				
warmly				
warn				
ward				
award				
reward				
Orange Words				
warning				
warmest				
towards				
wardrobe				
bought				
thought				
Green Words				
warmth				
swarming				
quarter				
nought				
sought				
brought				
BOB Words (My own words)				

Year 6 Term 4 Week 2 SMART Spelling

Name: _____

Focus: Plurals

Write on the lines.	Say the word, write the word on Day 1	Say the word, write the word on Day 2	Say the word, write the word on Day 3	Say the word, write the word on Day 4
Red Words				
knives				
loaves				
halves				
shelves				
thieves				
calves				
Orange Words				
hooves				
banjos				
heroes				
echoes				
memories				
supplies				
Green Words				
mosquitoes				
journeys				
photos				
videos				
chefs				
avocados				
BOB Words (My own words)				

MATHAROO Worksheets will be posted on Monday 11/10/21

NINJA Maths Answers from Week 30



Week 30 Session 1

Mental Strategies Answers



Q	Question	Answer
1	$20 = 11 + \square$	9
2	What is double 57?	114
3	$198 + 10 = \square$	208
4	$57 + 90 = \square$	147
5	$35 - 30 = \square$	5
6	$19 + 17 = \square$	36
7	$3 = 2 + \square$	1
8	$31 - 6 = 31 - 1 - \square$	5
9	$\square \times 8 = 8 + 8$	2
10	What time is shown on the clock?	2:00 am



Week 30 Session 2

Mental Strategies Answers



Q	Question	Answer
1	$\square + 2 = 20$	18
2	What is double 21?	42
3	$65 + 10 = \square$	75
4	$67 + 50 = \square$	117
5	$126 - 80 = \square$	46
6	$65 + 68 = \square$	133
7	$7 = 2 + \square$	5
8	$11 - 10 = 11 - 1 - \square$	9
9	$\square \times 3 = 3 + 3 + 3 + 3$	4
10	Draw hands on the clock face showing 2:30 am	See above



Week 30 Session 1

Timestables Answers

Q	Question	Answer
1	$\square \times 6 = 42$	7
2	$\square \div 8 = 8$	64
3	$72 \div \square = 9$	8
4	$24 \div 8 = \square$	3
5	$64 \div \square = 8$	8
6	$\square \div 5 = 7$	35
7	$72 \div \square = 9$	8
8	$10 \div \square = 2$	5
9	$\square \div 3 = 2$	6
10	$35 \div \square = 5$	7



Week 30 Session 2

Timestables Answers

Q	Question	Answer
1	$42 \div \square = 6$	7
2	$64 \div 8 = \square$	8
3	$\square \times 2 = 16$	8
4	$40 \div 8 = \square$	5
5	$56 \div \square = 7$	8
6	$\square \times 9 = 45$	5
7	$8 \times 10 = \square$	80
8	$40 \div \square = 8$	5
9	$6 \div 3 = \square$	2
10	$\square \times 6 = 42$	7



Week 30 Session 1

Key Skills Answers

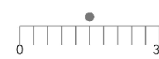


Q	Question	Answer
1	$9951 + 6530$	16 481
2	$(1 + 48) \div 7$	7
3	Write 51923 in words. Use the opposite page for your answer.	Fifty one thousand, nine hundred and twenty three
4	$2.3 \div 10$	0.23
5	Simplify $8/12$	$2/3$
6	Which is the highest number, -10 or -3?	-3
7	Value of the dot	45
8	What is the lowest common multiple of 7 and 8?	56
9	What is the value of (-5) cubed?	-125
10	$5/9 = \square/72$	40



Week 30 Session 2

Key Skills Answers



Q	Question	Answer
1	$575 + 728$	1303
2	$10 - 8 \times 2$	-6
3	Write Four Hundred and Twenty Nine Thousand, Two Hundred and Ten in digits	429 210
4	$286.914 \div 1000$	0.286914
5	Simplify $16/48$	$1/3$
6	Which is the highest number, 5 or -7?	5
7	Value of the dot	15
8	List the first 4 multiples of 8	8, 16, 24, 32
9	What is the value of $\frac{3}{27}$?	3
10	$5/7 = \square/14$	10

NINJA Maths Answers from Week 30



Week 30 Session 3

Mental Strategies Answers



Q	Question	Answer
1	$20 = \square + 1$	19
2	Double 25	50
3	$49 + 10 = \square$	59
4	$150 + 90 = \square$	240
5	$78 - 30 = \square$	48
6	$40 + 38 = \square$	78
7	$5 = 2 + \square$	3
8	$68 - 16 = 68 - 8 - \square$	8
9	$7 + 7 + 7 = \square \times 7$	3
10	Draw hands on the clock face showing 8:40 am	See above



Week 30 Session 4

Mental Strategies Answers



Q	Question	Answer
1	$\square + 15 = 20$	5
2	Double 34	68
3	$119 + 10 = \square$	129
4	$159 + 40 = \square$	199
5	$101 - 80 = \square$	21
6	$31 + 32 = \square$	63
7	$8 = 1 + \square$	7
8	$26 - 8 = 26 - 6 - \square$	2
9	$6 + 6 + 6 = \square \times 6$	3
10	Draw hands on the clock face showing 1:35 am	See above



Week 30 Session 3

Timestables Answers

Q	Question	Answer
1	$\square \div 7 = 10$	70
2	$\square \times 10 = 80$	8
3	$8 \times 5 = \square$	40
4	$24 \div \square = 3$	8
5	$8 \times \square = 24$	3
6	$\square \div 5 = 8$	40
7	$\square \times 10 = 80$	8
8	$5 \times 2 = \square$	10
9	$18 \div \square = 6$	3
10	$\square \div 7 = 7$	49



Week 30 Session 4

Timestables Answers

Q	Question	Answer
1	$28 \div 7 = \square$	4
2	$8 \times 3 = \square$	24
3	$8 \times \square = 24$	3
4	$32 \div \square = 4$	8
5	$8 \times \square = 56$	7
6	$5 \times 8 = \square$	40
7	$8 \times 3 = \square$	24
8	$45 \div \square = 9$	5
9	$3 \times 8 = \square$	24
10	$\square \div 7 = 3$	21



Week 30 Session 3

Key Skills Answers



Q	Question	Answer
1	$1183 + 4515$	5698
2	$(6 - 5)^2 + 4 \times 4$	17
3	Write Seventy Five Thousand, Three Hundred and Thirteen in digits	75 313
4	$5717.71 \div 1000$	5.71771
5	Simplify $6/18$	$1/3$
6	$(-10) \div 6$	-4
7	Value of the dot	35
8	What is the lowest common multiple of 6 and 8?	24
9	What is the value of 2 cubed?	8
10	$1/2 = \square/16$	8



Week 30 Session 4

Key Skills Answers



Q	Question	Answer
1	$859 + 4680$	5539
2	$(4 + 86) \div 9$	10
3	Write 29963 in words. Use the opposite page for your answer.	Twenty nine thousand, nine hundred and sixty three
4	$765.46 \div 1000$	0.76546
5	Simplify $4/6$	$2/3$
6	Which is the lowest number, -8 or -3 ?	-8
7	Value of the dot	9
8	What is the lowest common multiple of 6 and 10?	30
9	What is the value of 3 cubed?	8
10	$3/10 = \square/70$	21

NINJA Maths Answers from Week 30



Week 30 Session 5

Mental Strategies Answers



Q	Question	Answer
1	$\square + 6 = 20$	14
2	Double 75	150
3	$99 + 10 = \square$	109
4	$178 + 40 = \square$	218
5	$75 - 30 = \square$	45
6	$37 + 35 = \square$	72
7	$8 = 2 + \square$	6
8	$48 - 12 = 48 - 8 - \square$	4
9	$\square \times 5 = 5 + 5 + 5 + 5 + 5$	5
10	What time is shown on the clock?	2:40 pm



Week 30 Session 5

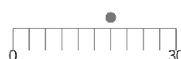
Timestables Answers

Q	Question	Answer
1	$35 \div 7 = \square$	5
2	$\square \div 8 = 6$	48
3	$8 \times 2 = \square$	16
4	$8 \times \square = 40$	5
5	$8 \times \square = 24$	3
6	$5 \times \square = 20$	4
7	$8 \times \square = 48$	6
8	$35 \div 5 = \square$	7
9	$\square \div 3 = 4$	12
10	$7 \times \square = 49$	7



Week 30 Session 5

Key Skills Answers



Q	Question	Answer
1	$2063 + 4490$	6553
2	$\sqrt{4} + 8 \div 4$	4
3	Write 68706810 in words. Use the opposite page for your answer.	Sixty eight million, seven hundred and six thousand, eight hundred and ten
4	$117.8 \div 1000$	0.1178
5	Write $30/70$ in its simplest form	$3/7$
6	Difference between -10 and -4	6
7	Value of the dot	18
8	What is the lowest common multiple of 7 and 10?	70
9	What is the cube root of 1000?	10
10	$4/3 = \square/6$	8

WEEK 31 SESSION 1 – Answer as many questions as you can in 5 mins

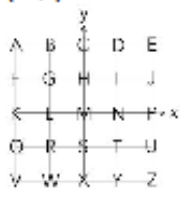
MENTAL STRATEGIES –
do these in your head

Q	Question	Answer
1	$\square + 2 = 5$	
2	$100 = 17 + \square$	
3	What is half of 9?	
4	$105 - 10 = \square$	
5	$62 + \square = 70$	
6	$23 = 10 + \square$	
7	$9981 - 9979 = \square$	
8	$1 \times 5 = 5$, so $5 \div 5 = \square$	
9	What is 16:21 in 12 hour clock format?	
10	What time will it be 37 minutes after 20:25?	
Total out of 10		

TIMESTABLES –
do these in your head

Q	Question	Answer
1	$\square \times 7 = 14$	
2	$24 \div 8 = \square$	
3	$18 \div \square = 2$	
4	$8 \times \square = 48$	
5	$\square \div 3 = 9$	
6	$\square \times 9 = 90$	
7	$8 \times 10 = \square$	
8	$3 \times \square = 27$	
9	$4 \times 8 = \square$	
10	$\square \div 4 = 6$	
Total out of 10		

KEY SKILLS – you may use written calculations for these questions

Q	Question	Answer
1	$838 \times 92 = \square$	
2	$6931 - 3947$	
3	2.9×6.22	
4	$62/100 = \square \%$	
5	$(-9) \times (-3)$	
6	Round 84.6193 to 1 decimal place	
7	$(-1) + (-2)$	
8	Round 545 to 1 s.f.	
9	What is the letter at $(-1,1)$? 	
10	What is $2/3$ of 6?	
Total out of 10		



What's your **NINJA** Score?
Fill in your scores in the boxes and calculate it now!

MY **NINJA** BELT:

MENTAL STRATEGIES:

TIMESTABLES:

KEY SKILLS: +

NINJA SCORE:

WEEK 31 SESSION 2 – Answer as many questions as you can in 5 mins


MENTAL STRATEGIES –
do these in your head

Q	Question	Answer
1	$5 = 4 + \square$	
2	$\square + 75 = 100$	
3	What is half of 3?	
4	$30 - 10 = \square$	
5	$6 + \square = 10$	
6	$125 = 10 + \square$	
7	$2388 - 2381 = \square$	
8	$4 \times 8 = 32$, so $32 \div 4 = \square$	
9	What is 14:16 in 12 hour clock format?	
10	01:36 is how many minutes after 01:03?	
Total out of 10		

TIMESTABLES –
do these in your head

Q	Question	Answer
1	$14 \div \square = 7$	
2	$\square \div 8 = 6$	
3	$\square \div 9 = 2$	
4	$16 \div 8 = \square$	
5	$24 \div 3 = \square$	
6	$\square \div 10 = 4$	
7	$\square \div 8 = 4$	
8	$\square \div 3 = 5$	
9	$16 \div \square = 4$	
10	$24 \div \square = 6$	
Total out of 10		

KEY SKILLS – you may use written calculations for these questions

Q	Question	Answer
1	$61 \times 29 = \square$	
2	$1915 - 987$	
3	2.13×0.6	
4	$10/100 = \square \%$	
5	$7 \times (-8)$	
6	Round 4.3942 to 1 decimal place	
7	$3 + (-6)$	
8	Round 3.92 to 1 s.f.	
9	What is the letter at (2,-1)? 	
10	What is $1/6$ of 30?	
Total out of 10		

What's your **NINJA** Score?
Fill in your scores in the boxes
and calculate it now!

MY **NINJA** BELT:

MENTAL STRATEGIES:

TIMESTABLES:

KEY SKILLS: +

NINJA SCORE:

WEEK 31 SESSION 3 – Answer as many questions as you can in 5 mins


MENTAL STRATEGIES –
do these in your head

Q	Question	Answer
1	$2 + \square = 5$	
2	$37 + \square = 100$	
3	What is half of 3?	
4	$118 - 10 = \square$	
5	$97 + \square = 100$	
6	$134 = 104 + \square$	
7	$4046 - 4042 = \square$	
8	$9 \times 6 = 54$, so $54 \div 6 = \square$	
9	What is 02:19 in 12 hour clock format?	
10	From 3:39 pm, how many minutes until 4:08 pm?	
Total out of 10		

TIMESTABLES –
do these in your head

Q	Question	Answer
1	$\square \div 2 = 7$	
2	$72 \div 8 = \square$	
3	$\square \div 9 = 7$	
4	$8 \times \square = 80$	
5	$3 \times 3 = \square$	
6	$10 \times \square = 50$	
7	$\square \div 8 = 8$	
8	$15 \div \square = 5$	
9	$4 \times \square = 40$	
10	$28 \div 4 = \square$	
Total out of 10		

KEY SKILLS – you may use written calculations
for these questions

Q	Question	Answer
1	$913 \times 23 = \square$	
2	$1365 - 776$	
3	7×3.48	
4	90% as a fraction	
5	$(-8) \times 8$	
6	Round 47.1697 to 2 decimal places	
7	$(-5) + (-7)$	
8	Round 383 to 2 s.f.	
9	What is the letter at (1,-1)? 	
10	What is $\frac{2}{7}$ of 14?	
Total out of 10		

What's your **NINJA** Score?
Fill in your scores in the boxes
and calculate it now!

MY **NINJA** BELT:

MENTAL STRATEGIES:

TIMESTABLES:

KEY SKILLS: +

NINJA SCORE:

WEEK 31 SESSION 4 – Answer as many questions as you can in 5 mins

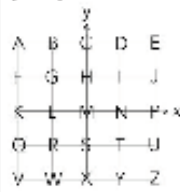
MENTAL STRATEGIES –
do these in your head

Q	Question	Answer
1	$2 + \square = 5$	
2	$\square + 89 = 100$	
3	What is half of 9?	
4	$85 - 10 = \square$	
5	$102 + \square = 110$	
6	$113 = 53 + \square$	
7	$5241 - 5232 = \square$	
8	$3 \times 7 = 21$, so $21 \div 3 = \square$	
9	What is 04:42 in 12 hour clock format?	
10	What time will it be 13 minutes after 8:13 am?	
Total out of 10		

TIMESTABLES –
do these in your head

Q	Question	Answer
1	$12 \div \square = 6$	
2	$8 \times 5 = \square$	
3	$9 \times \square = 18$	
4	$32 \div \square = 4$	
5	$21 \div 3 = \square$	
6	$80 \div \square = 8$	
7	$80 \div 8 = \square$	
8	$\square \div 3 = 7$	
9	$8 \div \square = 2$	
10	$8 \div \square = 8$	
Total out of 10		

KEY SKILLS – you may use written calculations for these questions

Q	Question	Answer
1	$670 \times 87 = \square$	
2	$13063 - 9582$	
3	9.6×7.7	
4	0.26 as a fraction	
5	$5 \times (-7)$	
6	Round 9.9611 to 3 decimal places	
7	$(-6) + (-2)$	
8	Round 52 to 1 s.f.	
9	What is the letter at (-2,2)? 	
10	What is $\frac{1}{2}$ of 20?	
Total out of 10		



What's your **NINJA** Score?
Fill in your scores in the boxes
and calculate it now!

MY **NINJA** BELT:

MENTAL
STRATEGIES:

TIMESTABLES:

KEY SKILLS:

+

NINJA SCORE:

WEEK 31 SESSION 5 – Answer as many questions as you can in 5 mins

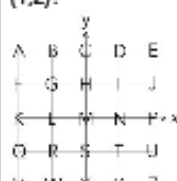
MENTAL STRATEGIES –
do these in your head

Q	Question	Answer
1	$\square + 4 = 5$	
2	$100 = \square + 11$	
3	What is half of 9?	
4	$14 - 10 = \square$	
5	$34 + \square = 40$	
6	$130 = 30 + \square$	
7	$387 - 379 = \square$	
8	$6 \times 8 = 48$, so $48 \div 8 = \square$	
9	What is 12:01 pm in 24 hour clock format?	
10	What time was it 25 minutes before 2:28 pm?	
Total out of 10		

TIMESTABLES –
do these in your head

Q	Question	Answer
1	$\square \times 5 = 10$	
2	$8 \times 4 = \square$	
3	$72 \div 9 = \square$	
4	$72 \div \square = 9$	
5	$\square \times 2 = 6$	
6	$10 \times 9 = \square$	
7	$\square \times 4 = 32$	
8	$3 \times 6 = \square$	
9	$16 \div 4 = \square$	
10	$24 \div 4 = \square$	
Total out of 10		

KEY SKILLS – you may use written calculations for these questions

Q	Question	Answer
1	$39 \times 664 = \square$	
2	$17059 - 8976$	
3	0.1×6.17	
4	40% as a fraction	
5	$9 \times (-10)$	
6	Round 0.2005 to 3 decimal places	
7	$5 + (-8)$	
8	Round 1291 to 1 s.f.	
9	What is the letter at (1,2)? 	
10	What is $\frac{6}{7}$ of 70?	
Total out of 10		



What's your **NINJA** Score?
Fill in your scores in the boxes
and calculate it now!

MY **NINJA** BELT:

MENTAL
STRATEGIES:

TIMESTABLES:

KEY SKILLS:

+

NINJA SCORE: