

Stage 2



Work Booklet

Term 3 Week 2

Year 4

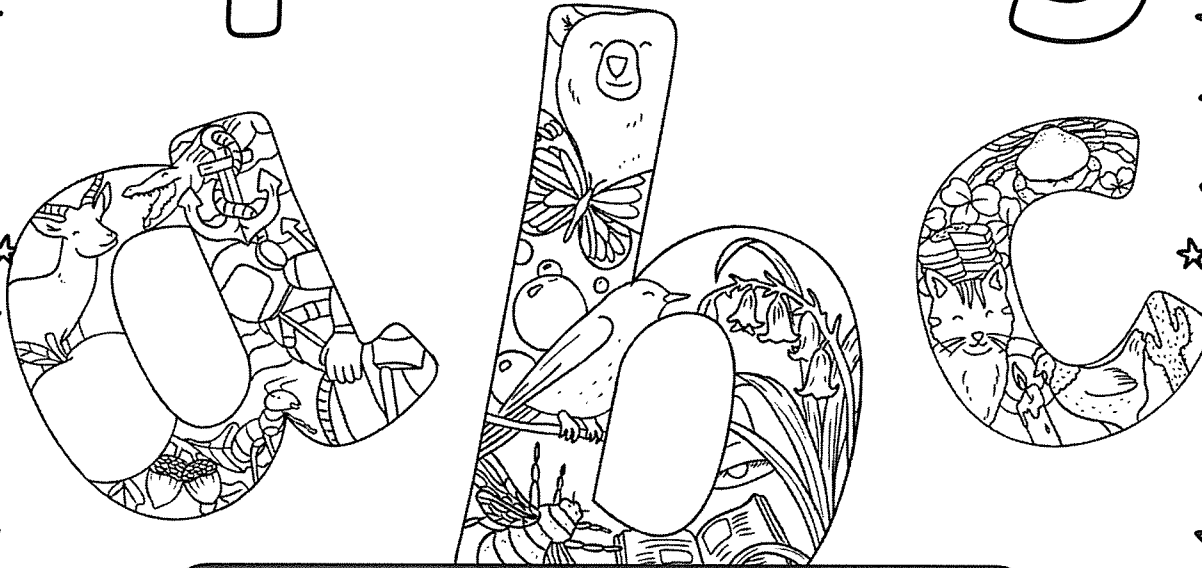
Name: _____

Class: - _____

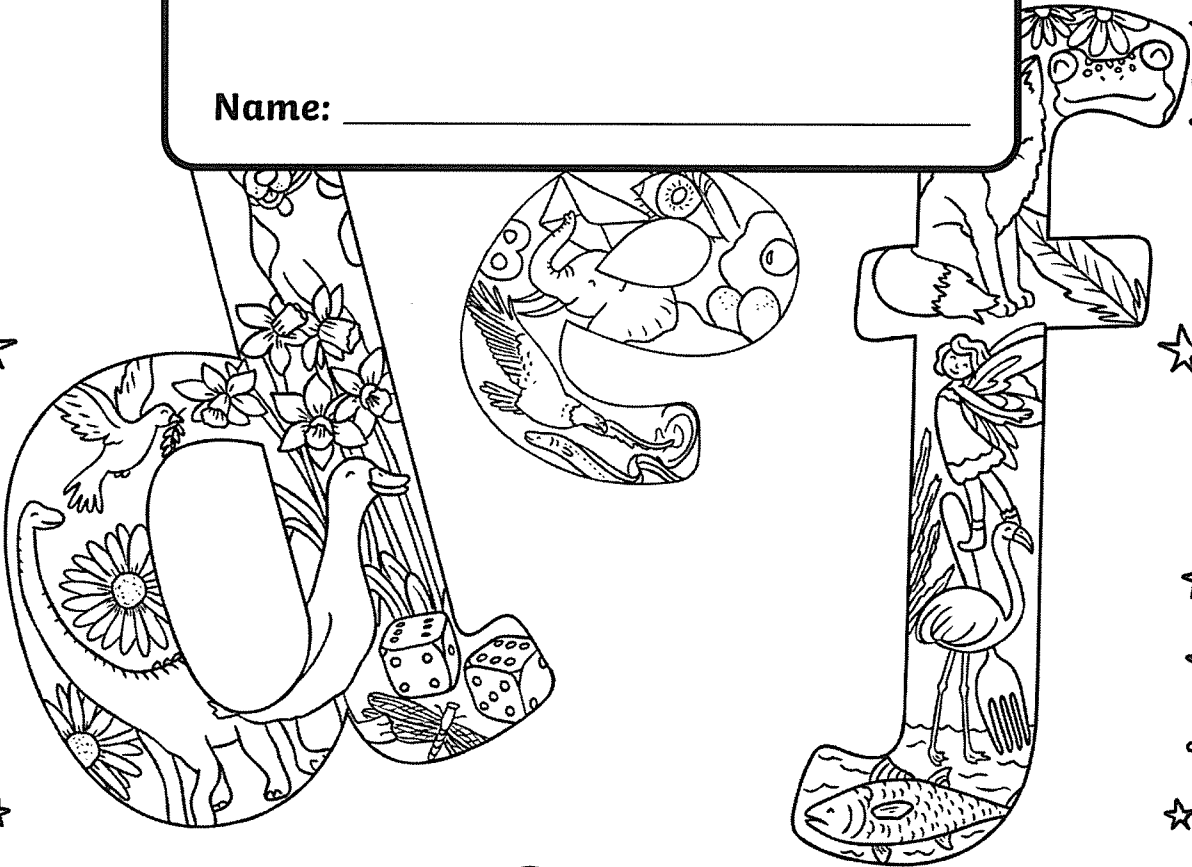
Week 2, Term 3	Monday	Tuesday	Wednesday	Thursday	Friday
<p>Morning 1</p> <p><i>If you are finding Spelling difficult, Use soundwaves login's which are located on the School Dojo Page. You can use the grade below.</i></p>	<p><u>Reading 1:</u> Read a book from home or online (such as Storyline Online). <i>Take a photo of your yellow card and put it in your Dojo portfolio.</i></p> <p><u>Reading 2:</u> Predicting Looking at the title and front cover, make a prediction about the text. Whilst reading, check your prediction and alter it if needed.</p> <p><u>Spelling:</u> Each day, choose TWO activities from the grid to practice your spelling words.</p>	<p><u>Reading 1:</u> Read a book from home or online (such as Storyline Online). <i>Take a photo of your yellow card and put it in your Dojo portfolio.</i></p> <p><u>Reading 2:</u> Tricky Words Write down any tricky words you come across while reading. Find them in a dictionary and write the meaning down.</p> <p><u>Spelling:</u> Each day, choose TWO activities from the grid to practice your spelling words.</p>	<p><u>Reading 1:</u> Read a book from home or online (such as Storyline Online). <i>Take a photo of your yellow card and put it in your Dojo portfolio.</i></p> <p><u>Reading 2:</u> Problem/Solution Identify and write the problem and the solution of your story.</p> <p><u>Spelling:</u> Each day, choose TWO activities from the grid to practice your spelling words.</p>	<p><u>Reading 1:</u> Read a book from home or online (such as Storyline Online). <i>Take a photo of your yellow card and put it in your Dojo portfolio.</i></p> <p><u>Reading 2:</u> Text-to-world Connection List down how this text relates to something that has happened in the real world.</p> <p><u>Spelling:</u> Each day, choose TWO activities from the grid to practice your spelling words.</p>	<p><u>Reading 1:</u> Read a book from home or online (such as Storyline Online). <i>Take a photo of your yellow card and put it in your Dojo portfolio.</i></p> <p><u>Reading 2:</u> B-M-E Identify and summarise in paragraphs the Beginning, middle and end of your story.</p> <p><u>Spelling:</u> Each day, choose TWO activities from the grid to practice your spelling words.</p>

<p>Middle</p> <p>Please make sure you check for your teachers name at the top of the page to complete the correct work.</p> <p><i>Mathletics Login and Password will be uploaded on Class Stories.</i></p>	<p>Maths</p> <p>Log onto www.Mathletics.com And complete 15 minutes of activities</p>	<p>Maths</p> <p>Log onto www.Mathletics.com And complete 15 minutes of activities</p>	<p>Maths</p> <p>Log onto www.Mathletics.com And complete 15 minutes of activities</p>	<p>Maths</p> <p>Log onto www.Mathletics.com And complete 15 minutes of activities</p>	<p>Maths</p> <p>Log onto www.Mathletics.com And complete 15 minutes of activities</p>
<p>Year 3 Teachers: Mrs Cooper/Hunt Mrs Mallarkey Mr Curran</p> <p>Year 4 Teachers Mr Brady Ms Moore Mrs Barrett</p>	<p>Complete 1 pages of Addition in your workbook</p>	<p>Complete 1 pages of Addition in your workbook</p>	<p>Complete 1 pages of Subtraction in your workbook</p>	<p>Complete 1 pages of Subtraction in your workbook</p>	<p>Complete 1 pages of Subtraction in your workbook</p>
<p>Afternoon:</p> <p>All tasks are in your booklet to be completed.</p>	<p>Writing</p> <p>Complete the set Writing task for the week.</p>	<p>PDHPE</p> <p>Complete the set PDHPE task for the week.</p>	<p>Science</p> <p>Complete the set Science task for the week.</p>	<p>Geography</p> <p>Complete the set task for Geography for the week.</p>	<p>Creative Arts</p> <p>Complete the set task for Creative Arts for the week.</p>

Spelling



Name: _____



Wk2

Spelling

Each day, choose ONE activity to complete using your list of spelling words.

Teach THIS

Verbal Linguistic

Delightful Dictionaries

Using your dictionary, find each of the meanings of your spelling words and write them in your book.

Mathematical/Logical

Find a Vowel

Write out all your spelling words and circle the vowels in each word.

Naturalistic

Stuck on the Sand

Use a stick to write your spelling words outside in the sand or dirt.

Bodily Kinesthetic

Charades

With a partner, play charades acting out one of your spelling words while your partner guesses the word.

Visual/Spatial

Pick a Word

Make each of your spelling words using toothpicks. Glue them onto your page.

Interpersonal

Make a game of it

Make up a spelling word game. Ask someone to try it out and rate it.

Intrapersonal

Always Improving

Think about the way you learn your spelling words at home. Can you think of more effective ways to learn them?

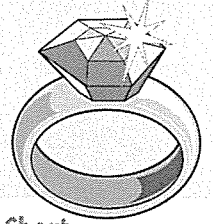
Musical/Rhythmic

Listen to Me

Create jingles or a song to help others learn their spelling words.





ng n ring wink




List Words

- sang _____
- sink _____
- drank _____
- trunk _____
- finger _____
- anything _____
- evening _____
- strong _____
- belong _____
- strength _____

1 Circle the letters that represent  in the List Words.

2 Write any other letters that can represent  on the Grapheme Chart. Write one word example for each.

3 Write one stroke for every sound in each List Word.

4 Colour the letters n or ng if they represent  in the word.

anyone wring link blank knead skunk kneed
gnat neither ring length beginning young finger

5 Read the words at the top of each column to decide which verb to write.

Today I	Yesterday I	I have	I am
sink	sank	sunk	sinking
drink			
sing			

Grapheme Chart

letters	words

6 Unjumble the letters to make List Words. Write a rhyming word for each one.

niks

nags

ntukr

nbloge

adnkr

7 Add the word thing to these words to make as many compound words as you can.

no none any
some each every

+ thing

Challenge

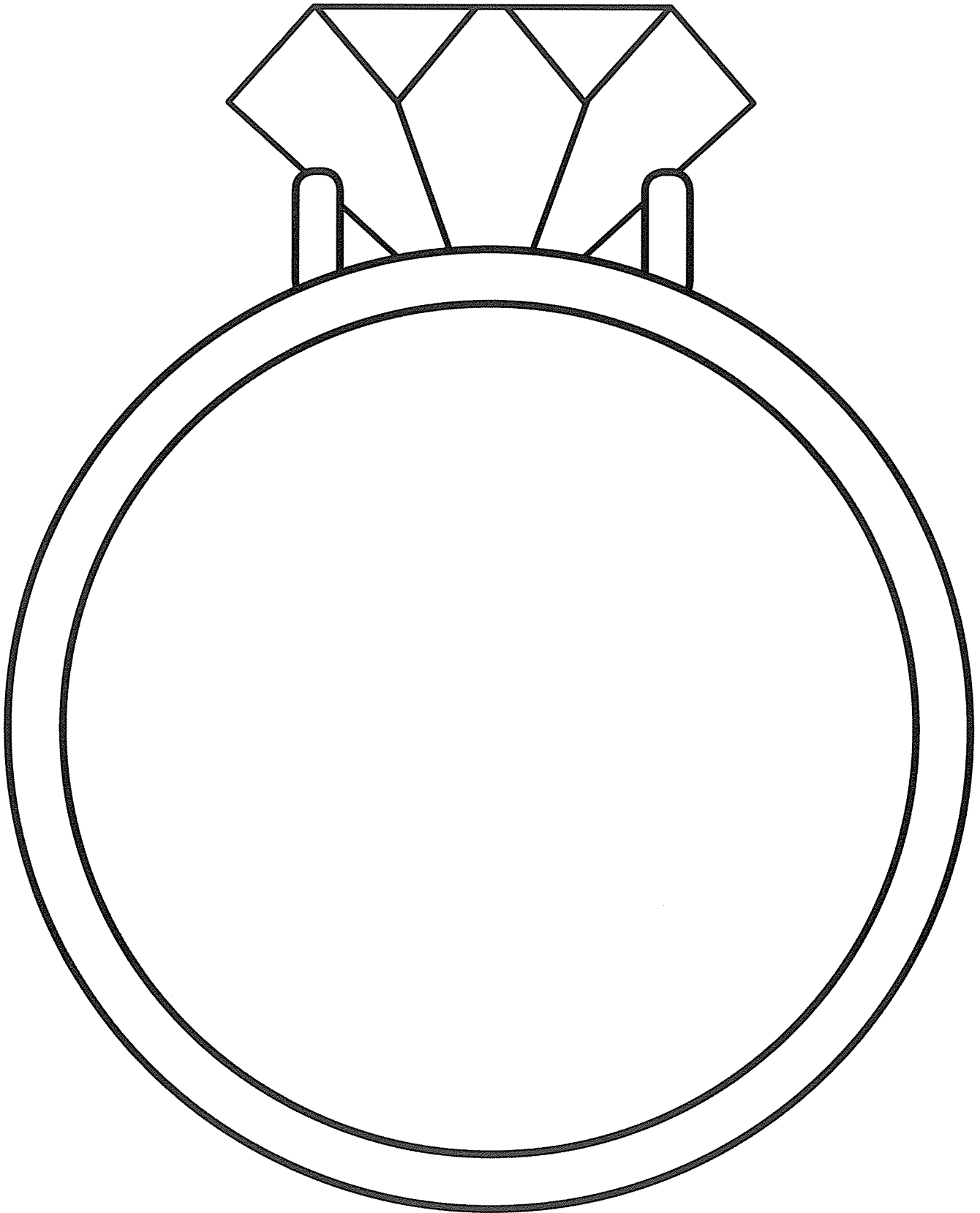
Rewrite these List Words that have been written with the beginning of the word at the end of the word, for example *nksi* – *sink*.

unktr _____ nnyfu _____ gerfin _____ ngstro _____

ifekn _____ yonean _____ etynin _____ ningeve _____

anaban _____ ingyanyth _____ thernei _____

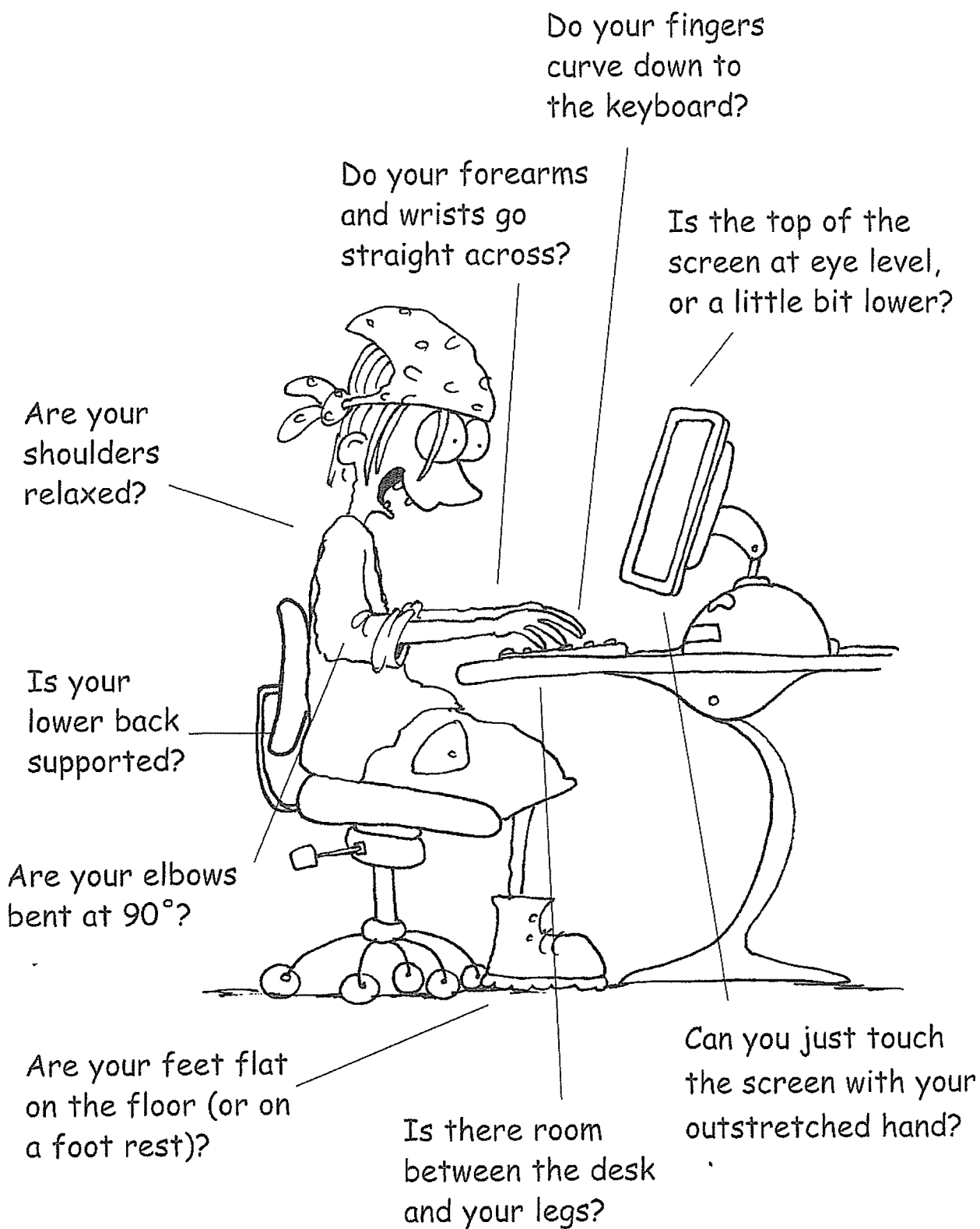
longbe _____ engthstr _____ neteeni _____



Handwriting



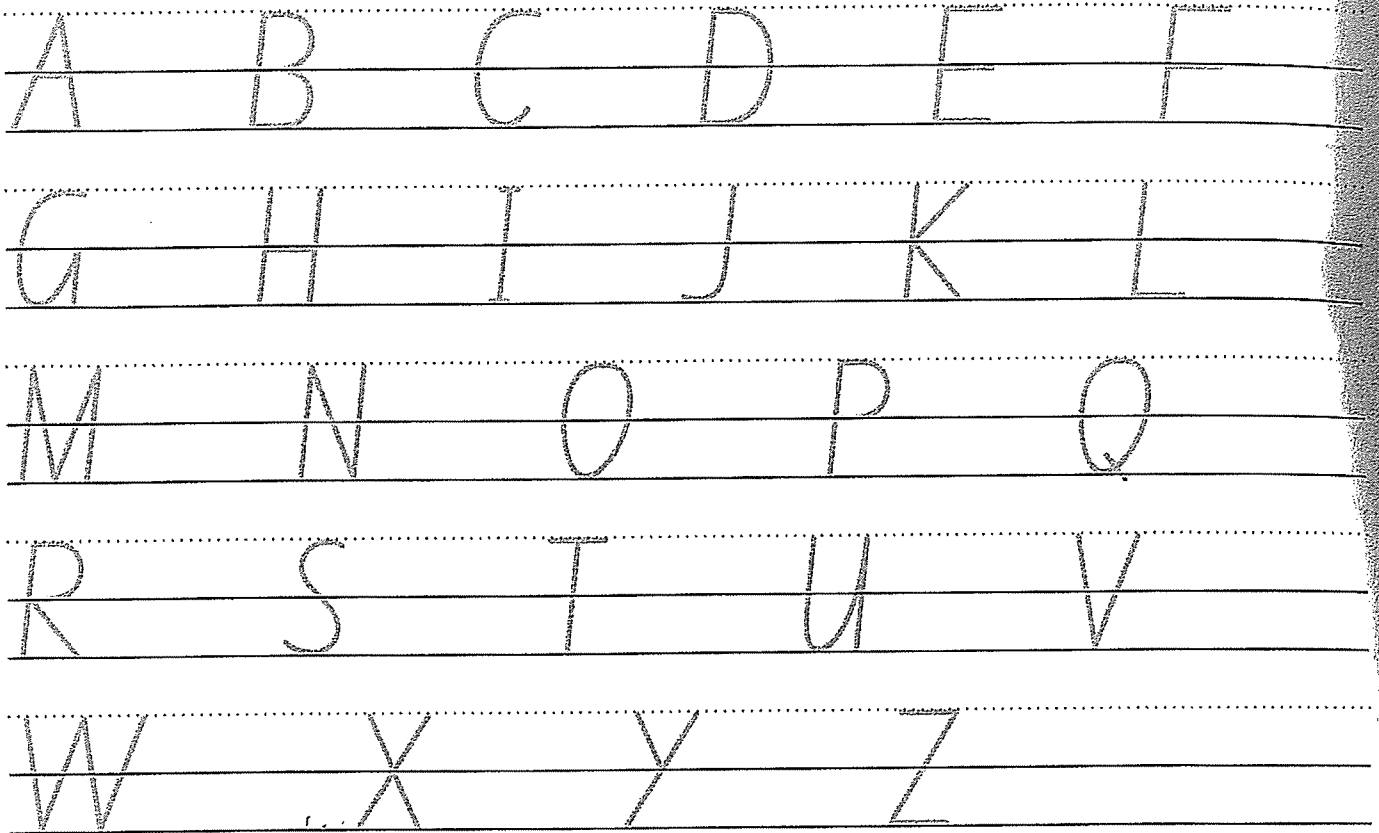
How to sit at the computer



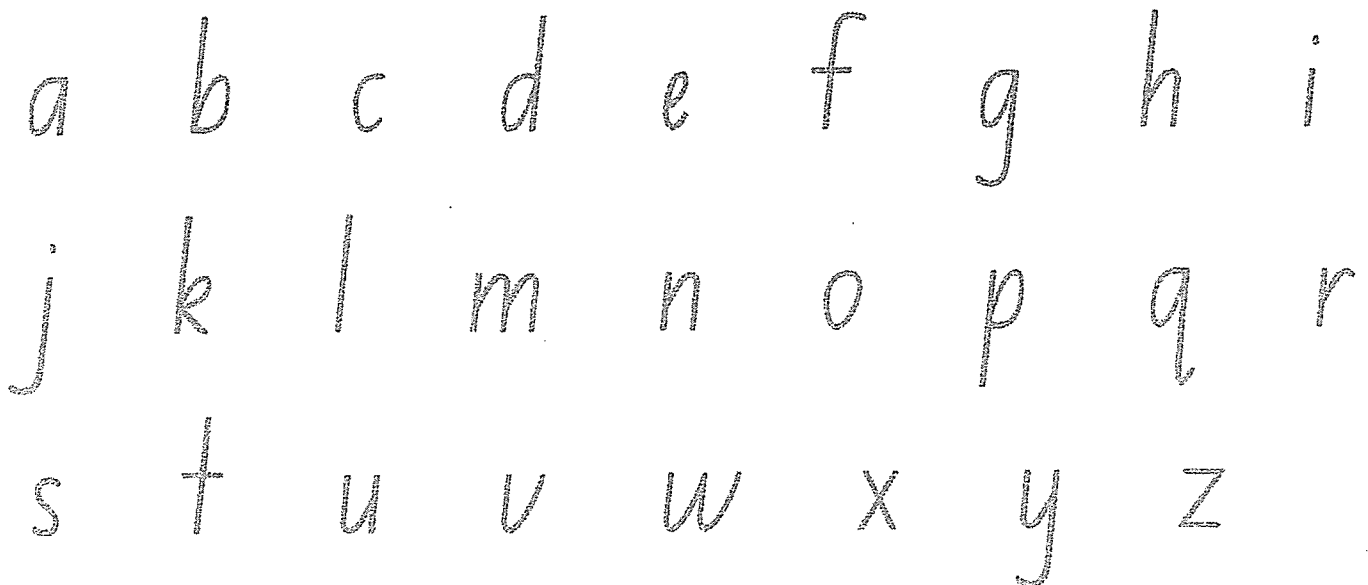
Go through this checklist with students before they begin work at the computer, and assist them in making any necessary adjustments. Encourage students to get into the habit of checking their own posture when they use a computer.

Revision – Foundation printing

Trace these capitals. Write the matching lower-case letters.



Trace the downstroke pattern letters in one colour.
Trace the clockwise (hopping) pattern letters in another colour.
Trace the anti-clockwise (wave) pattern letters in a third colour.



Trace and copy.

1 1 1

2 2 2

3 3 3

4 4 4

5 5 5

6 6 6

7 7 7

8 8 8

9 9 9

10 10



• • •

7 7 7

! ! !

7 7 7

• • •

7 7 7

• • •

7 7 7

2 2 2

66 77 66 77

Exits



The exits on v's and w's are a bit different. They make a little dip from a top point.

top point



little d

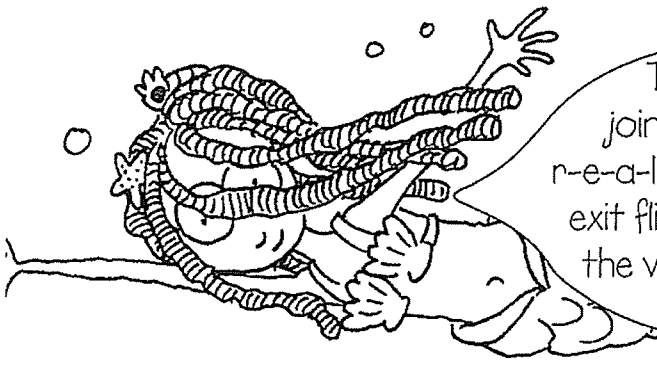


Rewrite the passage below. Add exit flicks to the letters that need them.

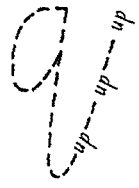
Pirates are thieves who sail the seas looking for vessels to steal from. They hold up the ship's crew using guns, knives and other weapons. They steal whatever treasures are on board.

Handwriting practice lines consisting of multiple sets of three horizontal lines (top, middle, bottom) with a dotted line in the middle, providing space for rewriting the passage.

Diagonal joins from q and z



The diagonal join from q to u is n-e-a-t-l-y long. Make the exit flick of the q go all the way up to the top body line.



q q q q q q q q q q q

qu qu qu qu qu qu qu qu qu qu

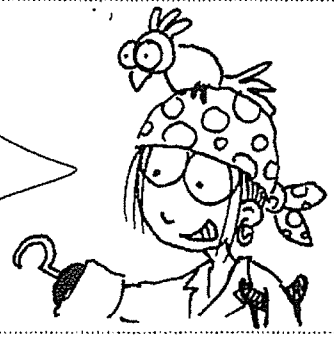
Trace and copy.

quite quite quiet quiz quit

Z Z
Z Z

little wave

z is another tricky one. Give the bottom of the z a little wave before you do the diagonal stroke to join it to the next letter.



z z z z z z z z z z

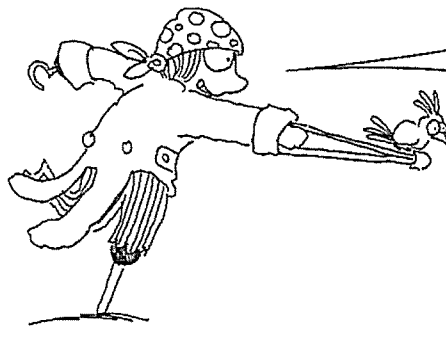
ze ze ze zy zz zz zz zz

Trace and copy.

zip zeal lazy wheeze swizzle

Horizontal joins from f

fu fi



When joining letters from f, use a straight horizontal line to the next letter.

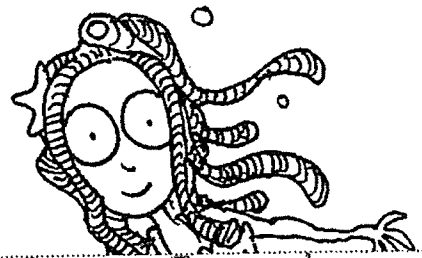
Trace then copy.

fi fi fi fi fr fr fr fu fu fu

fish fin fried frogs fun fur

fa fo

If f is joining to a or o, remember to retrace.



fa fa fantastic fo fo fondue



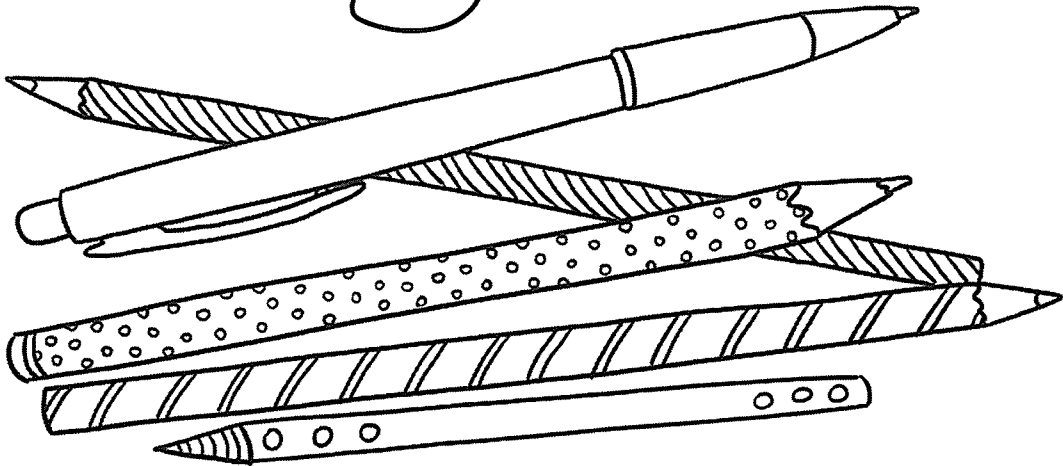
Here are some tricky things to remember.

- Join f to l by retracing the downstroke of the l.
- f doesn't join to e.

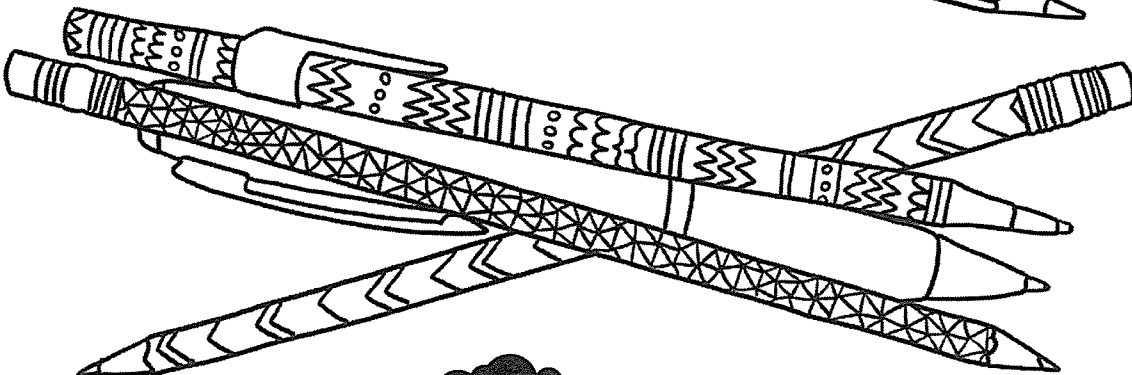
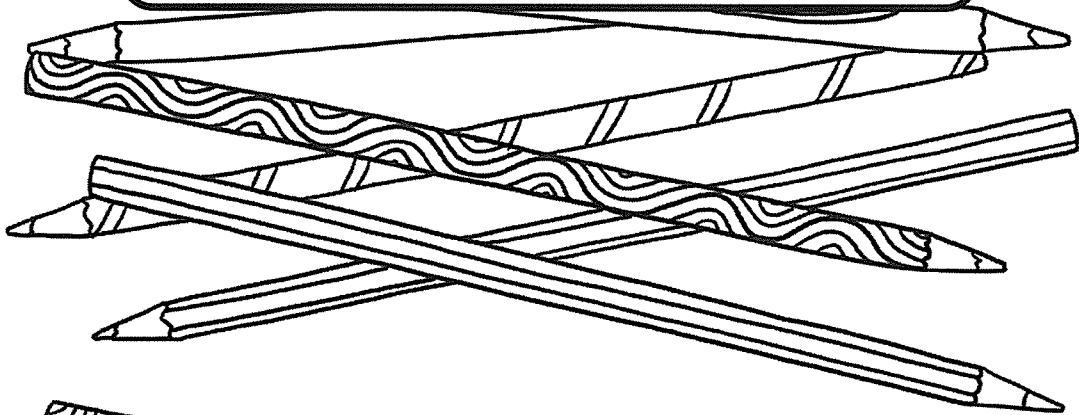
fl fe^{no join}

fl fl fl fl fl fl fl fl fl fl
flounder flathead floury cod

English



Name: _____



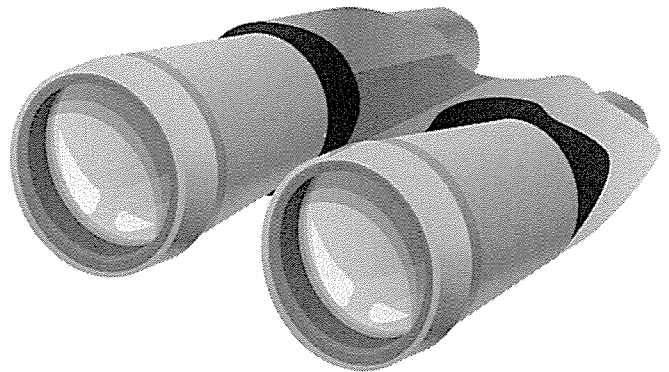
exhausted binoculars juvenile
conceived procession refuge

Saving Thor

"Are those seagulls?" Zeke asked, pointing to the top of the dikes.

Rania stopped pedaling and took her binoculars out of her backpack. "Not gulls. I'm not sure what they are, but they're pretty big. Maybe hawks? You take a look."

Zeke examined the birds through the binoculars. "They're young bald eagles, called juveniles. They don't get the white head feathers until they're adults."



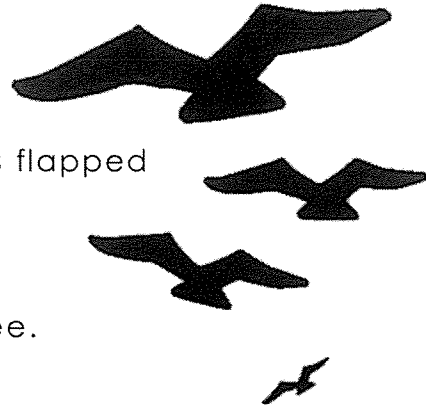
As they watched, the two brown birds paced around on top of a cluster of boulders. Finally, they flew off, landing at the top of a dead tree overlooking the bay.

Zeke and Rania pushed their bikes to the top of the dike, and then looked down into the marsh grass. "Look!" Zeke cried. "There's another juvenile, and it looks like he is stuck."

As they got closer, they could see frayed yellow rope wrapped around one of the young eagle's legs, and it appeared as if the rope was caught between two massive boulders.

"That's so sad," Rania said. "His friends are probably trying to help him."

Farther along the dike, the other two eagles flapped away from the dead tree they had been perched on, squawking and circling, before coming back to roost again on the same tree.



The stuck eagle looked up at them with eyes that did not look like fierce, eagle eyes. They looked defeated and exhausted.

"What's that place called where they rescue wild animals?" Zeke asked. "I saw a video of them rescuing an injured owl."

"Wildlife Refuge," Rania said. She dug her phone out of her backpack. After several rings, someone answered. "Wildlife Refuge. How may I help you?"

"We're out on the dikes near Canning, and I think we found a juvenile bald eagle," Rania said. "He has rope wrapped around one leg, and the rope is trapped between some rocks."

Rania answered a few questions and hung up. "Somebody will be here within the hour. Guess we'll wait and keep this guy company. Let's give him a name. How about Thorondor, like in *The Lord of the Rings*?"

Zeke shrugged. "How about just Thor, like in the comics?"

"Sure," Rania said, looking sadly at the eagle. "Hey, Thor. Hang in there, buddy. Help is coming."

The eagle blinked, then launched himself into the air, only to have the rope pull him down, crashing back onto the rocks. The other eagles squawked.

"Oh my goodness, is he OK?" Rania asked. The teenagers were really worried that the eagle was going to hurt himself before the wildlife refuge people arrived. They looked around for help, but nobody was in sight. Rania kept talking to the eagle, telling him to be calm, but she knew he didn't understand.

It grew very quiet, and time seemed to be moving very slowly as they waited. Suddenly, Thor once again tried to join his friends, and once again was pulled back to the rock with a horrible sounding thud.

Zeke started to pull his shoes off. "I'm going to go down there and free him. All I have to do is pull the rope out from between those rocks, then Thor can fly away," said Zeke.

Rania knew immediately that that was a remarkably poorly conceived idea. Zeke's intentions were good, but his plan was bad. She looked flatly at Zeke and chose her words carefully. "Zeke, if you climb down to those rocks, Thor isn't going to understand that you are coming to help him. He is going to be really scared. He'll probably hurt himself even worse, trying to get away from you. And if you get close, do you think Thor is just going to sit there and let you tug on the rope? Look at his beak and his claws. He is a wild animal. He's going to defend himself."



Just then Thor let out another screechy, troubled squawk.

"We can't just sit here and not do anything. Look at him," Zeke replied, undecided on what to do, as he hesitated for a moment and then continued to pull off his second shoe.

A low rumbling made them look toward the entrance to the dike road. Both teenagers were relieved to see a truck pull up next to their bikes. Zeke pulled his shoes back on.

A man and a woman got out, carrying what looked like a big dog crate. "Thanks for calling us," the woman said. "I'm Martha, and this is Ralph. Where is the little guy?"

"Thor," Rania said, pointing. "That's what we named him."



Ralph smiled. "Perfect strong name for such a majestic creature."

Martha and Ralph approached Thor cautiously, but the eagle barely moved, even as they got close to him.

"He looks exhausted," Martha said. "He may have been stuck here for quite some time." She held a blanket above Thor while Ralph cut the rope, and then together, they bundled the eagle up and carried him to the truck, gently placing him in the crate.

"Will he be okay?" Zeke asked.

"He doesn't seem to be injured," Ralph said. "But if he's been stuck for a while, he's probably pretty hungry. Don't worry, we'll get him fixed up in no time."

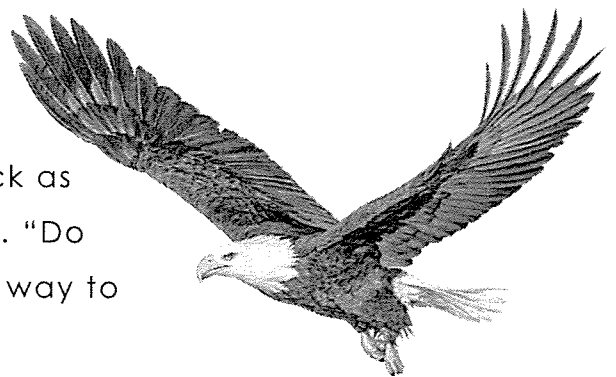
Zeke pointed to the other two eagles, watching from a distance. "We think those are his friends, or maybe siblings. When we showed up, they were trying to help him."

Ralph nodded, and he and Martha started to climb into their truck. "Thank you so much," Rania said through the open windows.

"No," Martha said. "Thank you for calling us. The two of you probably saved that eagle's life. Give us a call at the center in a few days, and we can let you know when Thor is ready to be released, and you can come and watch, if you like."

"Really?" Zeke said. "That would be awesome. I'd love to see him flying."

The other two eagles flew after the truck as Zeke and Rania got back on their bikes. "Do you think they'll follow the truck all the way to the Center?" Zeke asked.



"Maybe," replied Martha. "Maybe they will show up when Thor gets released. That would be way-cool."

"Maybe the eagles will bring us some medals for saving their friend," said Zeke, imagining a procession of bald eagles saluting him and Martha.

Saving Thor (exercises)

1. Short Answer

What are young bald eagles called?

What kind of noise do eagles make?

What book is the name *Thorondor* from?

2. Rania gave 2 reasons why it would be a bad idea for Zeke to try to rescue the eagle himself. What were they? Can you think of a 3rd reason?

a. _____

b. _____

c. _____

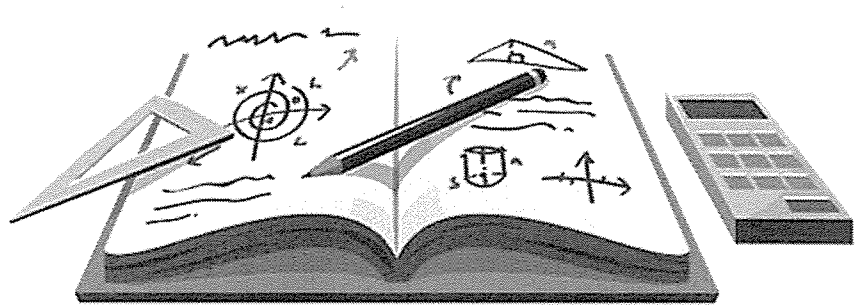
3. Write a paragraph describing the rescue from Thor's point of view.

eardrums vibrations scientifically
vacuum symphony frequency

Blocking Beethoven

Mikayla dropped her head onto her open math book, crossed her arms so her shoulders blocked her ears, and groaned. Her room was practically vibrating from her brother Liam practicing piano again, and there was no way that she could focus on math with all of that noise.

"Mom!" she shouted.
"Liam is playing way
too loud again!"



Mikayla's mom popped her head into the room. "Sorry honey," she said, "Were you calling me?"

"Yes!" Mikayla answered, "I'm surprised you heard me since Liam's making so much noise. I can't study for tomorrow's math test when he is banging away on that piano."

"Right," said Mikayla's mom thoughtfully. "It seems we need to find a way for everyone to get their work done at the same time because Liam needs to practice for his recital on Saturday, and you need to ace your math test."

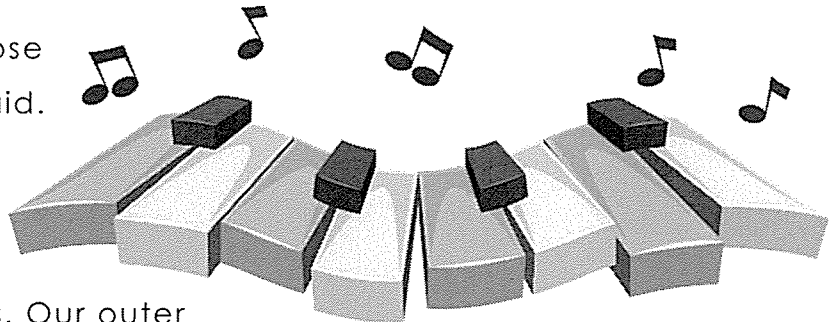
Mikayla nodded.

"Let's think about this," her mom continued. "Sound is energy created by the vibration of an object. When Liam hits a piano key, a tiny hammer strikes a metal string in the piano causing it to vibrate. The vibration of the string causes the surrounding air to vibrate, and those vibrations travel through the air as sound waves."

"Well, I'm drowning in those sound waves," Mikayla said.

"As you've noticed, those sound waves

eventually reach our ears. Our outer ear funnels the vibrations in the air into the middle of our ears where our eardrum sits. Our eardrums then begin to vibrate in the same pattern. The vibration of our eardrums results in signals that our brains interpret as sound. And that's what is interrupting your homework."



"You're not kidding," Mikayla said. "So, can you please make him stop?"

"Maybe we can figure out a way to interrupt that process. Then you can get your studying done."

"Mom, that's easy. Let me explain," Mikayla said in her most grown-up and patient voice. "First, you tell Liam to stop hitting the piano keys with his fingers, then the keys won't cause the hammer to hit the strings, and then the strings won't vibrate, and there will be no sound waves flooding into my ears and ruining my chances of getting into university."

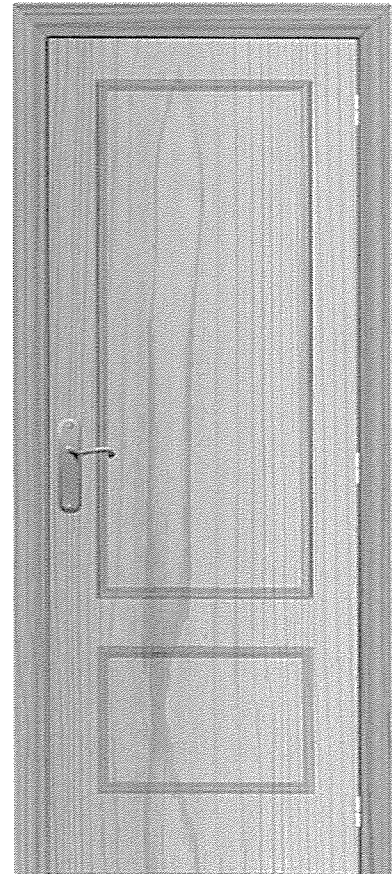
"Very funny girl," Mom said with a smile. "We could silence the piano by stopping the strings from vibrating, but then Liam won't get the practice that he needs. However, the sound vibrations have to travel through the air to reach our ears. How can we block that?"

"OK, that's easy too," Mikayla sighed. "We just hook Dad's big pump up to the house and pump out all the air. Then the sound can't travel."

Mom looked thoughtful. "Well, scientifically speaking, you are correct. Sound vibrations need a medium, like air or water, to travel through. If there was no air to vibrate, there would be no sound. In fact, in the vacuum of outer space, it is completely quiet. However, we need air to breathe, so your plan won't work. Let's try closing your door and block that vibrating air from coming into your room."

Mikayla and her mom closed Mikayla's door and window, and shoved a blanket around the door until they couldn't see any light coming through. The room seemed completely sealed. Unfortunately, just at the moment, Liam stuck up a rousing version of Beethoven's ninth symphony, and they could hear every chord.

Mikayla covered her ears. "Why does he have to play so loud?"



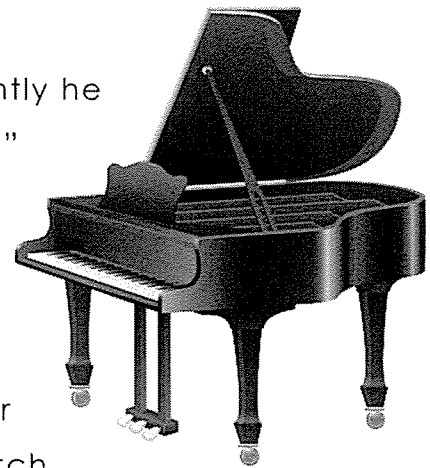
"Hmmm... I guess closing your door is not going to solve our problem," Mikayla's mom conceded. "The vibrating air outside of your room is causing your walls to vibrate, which causes the air inside your room to vibrate. So, we can still hear the piano. We made it quieter, but still not quiet enough."

"Well, can't you just tell Liam to practice more quietly?" Mikayla asked.

"Sure," Mom replied. "The energy something makes when it vibrates produces sound waves that have a definite pattern. If Liam hits the piano keys harder, then the string vibrates with more energy and the sound waves are larger. When he plays lightly, he reduces the energy of the string vibration, creating smaller, quieter sound waves. I could ask him to play more quietly, but I don't think it would solve our problem completely."

"Yeah," Mikayla groaned. "No matter how gently he plays the high notes, they make my teeth hurt."

"That's a bit melodramatic." Mikayla's mom noted. "High and low notes do vibrate differently. If a sound has higher pitch, then it means the sound wave is vibrating much faster or has a higher frequency. A low frequency pitch vibrates slower and sounds deeper. Liam needs all of the keys to practice though, so we can't ask him to only play the low notes."



"Great, so I just fail my math test then," Mikayla sighed.

"No, that's not the answer," Mom reassured her. "How can we figure out a way to reduce the vibrations that your ears are exposed to?"

"Oh, OK," Mikayla said in frustration. "Maybe I'll just wrap my head in a giant marshmallow."

"That's it!" Mom exclaimed, dashing out of the room. Hearing the backdoor slam, Mikayla went to the window and saw Mom heading into her woodworking shop in the backyard. A few minutes later, her Mom burst back into her room.

"Marshmallows are the answer!" she cried, holding up a bulky pair of ear muffs she used when operating loud machinery in the shop.

"These ear muffs have a tough outer shell, but inside they are filled with soft foam that's designed to not vibrate at frequencies we can hear. Give them a try."

Mikayla put on the big ear muffs, and Beethoven was instantly silenced. Mikayla gave Mom a thumbs-up. Marshmallows were the answer indeed.



Blocking Beethoven (exercises)

1. Multiple Choice

If something is vibrating very quickly, it will likely:

- a. have a very low sound like tuba
- b. have a really quick beat like dance music
- c. have a really high sound like a flute
- d. be very soothing to listen to

If something is vibrating very slowly it will likely:

- a. sound like tinker bells
- b. not have enough energy to vibrate your ear drum
- c. sound very deep and low like a foghorn
- d. try to catch up to the quick waves

What is a "vacuum" as discussed in the story.

- a. A machine for cleaning carpets.
- b. A space that is completely empty of all particles, including air.
- c. A room that is so noisy that you cannot hear yourself think.

2. Sounds can be high-pitched or low-pitched. They can also be loud or soft. Fill in this chart with examples of sounds of each type:

High-pitched sound	Loud sound
Low-pitched sound	Soft sound

3. Short Answer

Do you think you can hear anything under water? Why or why not?

Blocking Beethoven (answers)

1. **Multiple Choice**

- b. have a really quick beat like dance music
- c. sound very deep and low like a foghorn.
- b. A space that is completely empty of all particles, including air.

2. **Sounds can be high-pitched or low-pitched. They can also be loud or soft. Fill in this chart with examples of sounds of each type:** (Answers may vary)

High-pitched sound	Loud sound
school bell whistle	car's horn hammer banging
Low-pitched sound	Soft sound
cow's moos bass guitar	bird's chirp hiss of snake

3. **Short Answer** (Answers may vary)

Yes, you can hear under water. Even though there is no air, the sound can travel through vibrations of the water molecules.

Using adjectives

Grade 3 Adjectives Worksheet

Circle the adjectives.

Word bank:

clumsy	fatigue	island	pleasant	timid
curious	heavy	koala	precious	tiny
dirty	hungry	long	eye	trouble
envy	important	mark	strong	vision

Complete the sentences using the adjectives from above.

1. The pleasant man helped the woman cross the street.
2. The _____ papers were left on the table.
3. Mark was talking with his _____ neighbour.
4. Is it true that a _____ mouse can scare an elephant?
5. Leave your _____ shoes on the mat by the door.
6. The _____ baby was crying for his bottle.
7. The _____ players scored many goals.
8. Lydia left her _____ backpack at the bottom of the stairs.
9. Teddy is so _____ and he tripped on the sidewalk.
10. Jenna placed her _____ doll carefully on her dresser.
11. The students were looking forward to the _____ summer break.
12. The _____ girl refused to sing in front of the crowd.



Writing adjectives

Grade 3 Adjectives Worksheet

Rewrite each sentence with adjectives to make it more interesting. Underline your adjectives.

Example:
Jacob finished his dinner.
Jacob finished his delicious dinner.

1. Dad parked the car.

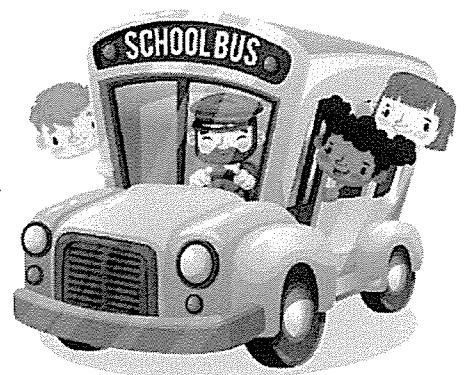
2. Mom served the lasagna.

3. Andrew walked his dog.

4. The actor waved to the fans.

5. The teacher waited for her students.

6. The girl waited for the bus.



Finding adjectives

Grade 3 Adjectives Worksheet

Circle the adjectives in the story.

During Pioneers times, life was not easy. The men worked hard at

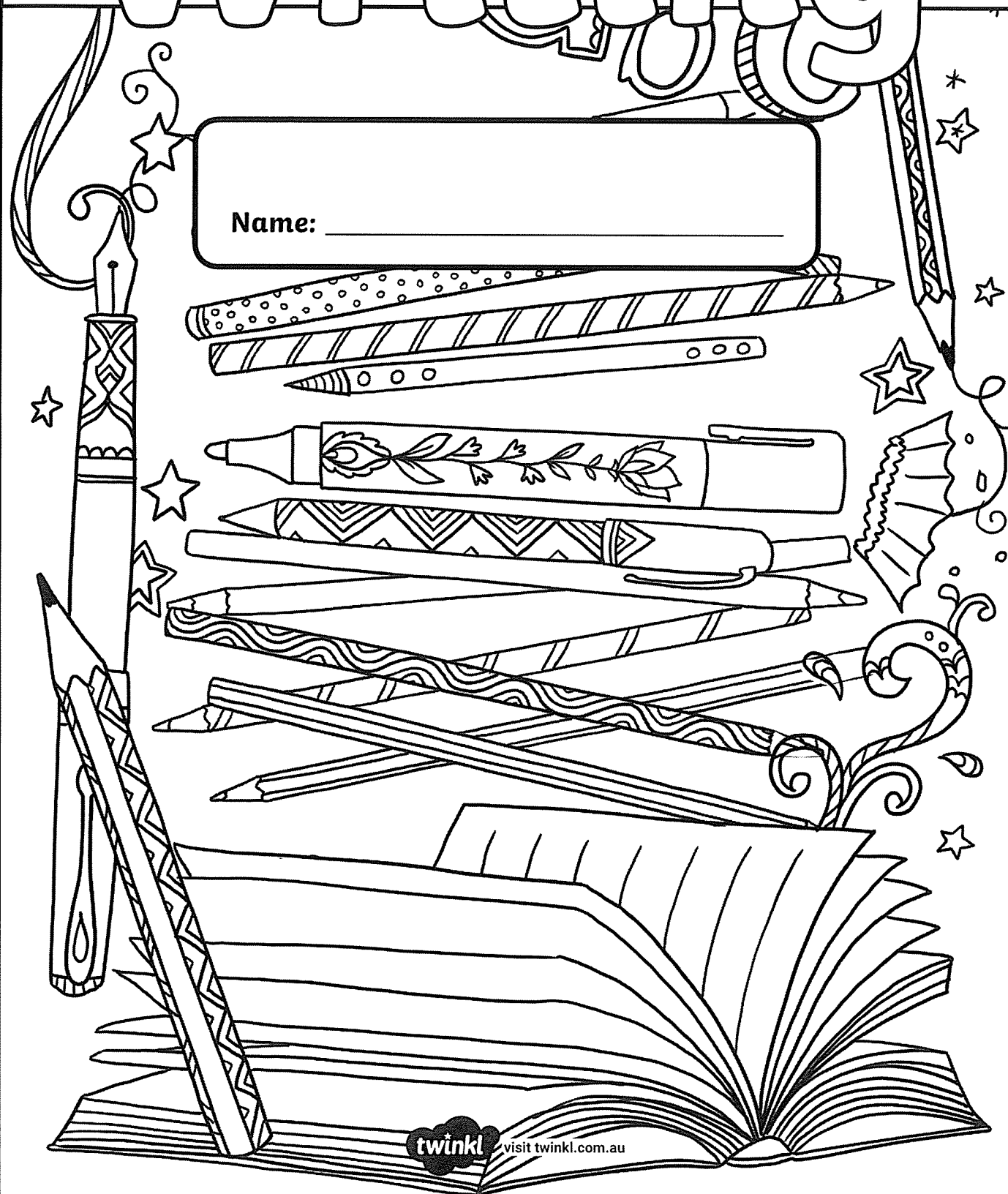
Hint:
Adjectives are words that describe nouns.

removing the tall trees from their land to build their small log homes. They labored from dawn until dusk to build a solid home for their families. The women also worked hard. They planted vegetable gardens and tended to them all summer long to make sure they would have fresh food to put on the table. They washed dirty clothes by hand using square soap they made from scratch. The many children helped a lot with the easier chores. They milked the cows and collected the eggs from the chicken coop. They cleaned the filthy stable and fed the hungry animals. They completed all their daily chores before walking to school. Life as a pioneer was hard, and people worked for every bit of food they ate.



Writing

Name: _____



Information Reports

What are information reports and why do we write them?

Information reports are written to classify and describe factual information about a certain topic or theme. We can write information reports on animals, cities, history, sport, people, companies and many more topics.

What structure is needed in an information report?

An information report includes:

- An opening general statement or general classification, which classifies the topic and/or theme and includes further technical information about the subject of the report.
- Descriptive information about various aspects of the topic or theme, which is organised into paragraphs, with or without subheadings and sections.

What are the main language features?

- **Language of generalisation**, for example: **A** dinosaur is....
- **Language of description**, for example: The Great Barrier Reef has **beautiful, colourful coral** formations.
- **Language of comparison/contrast**, for example: Trams **are similar to** trains.

What other features need to be included?

Text Cohesion

For a text to 'flow' there needs to be links and relationships established within the text. This is done through linking back to something that has already been mentioned, like events or people. The cohesive features that are used are mainly pronouns and synonyms, for example: Dinosaurs are.... These animals are.... These large animals.... They....

Subject/Verb Agreement

For example: The dinosaur **has** a tail. Dinosaurs **have** a tail.

Technical Language

This language included words and vocabulary that is specific to the particular topic or theme that is being written. When writing about dinosaurs, the technical language would be subject to this particular topic, for example: ancient, Jurassic, carnivores.

Timeless Present Tense

For example: Fish **come up** to the surface of the water to breathe.

What skills are needed and developed when writing information reports?

Researching, surveying, taking notes, summarising and interviewing.

Planning Your Report

Title

Introduction

What is the report about?

Sub-heading

Add interesting facts and information below.

Sub-heading

Add interesting facts and information below.

Picture/Diagram

Add a picture or labelled diagram.

My Informative Prewriting Template

Fact

Topic

Fact

Fact

Fact

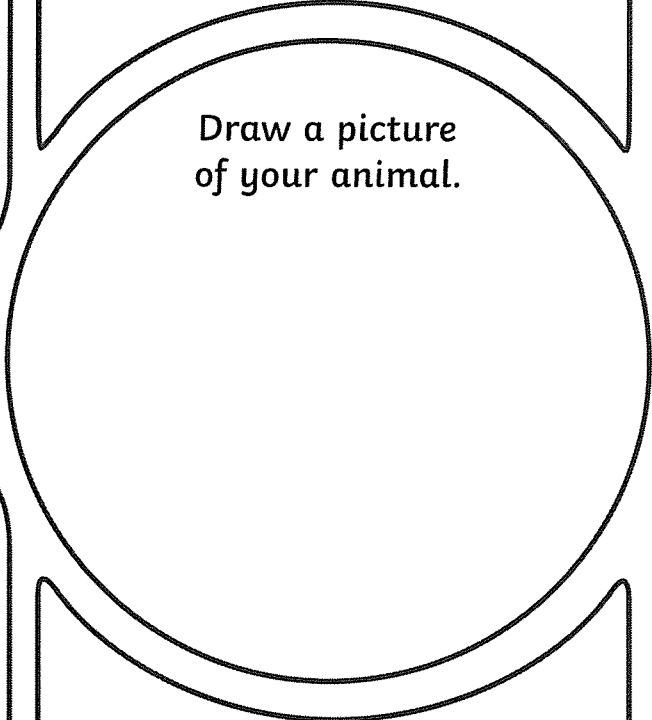
Australian Animals Koala



What They Look Like

Where They Live

Draw a picture
of your animal.

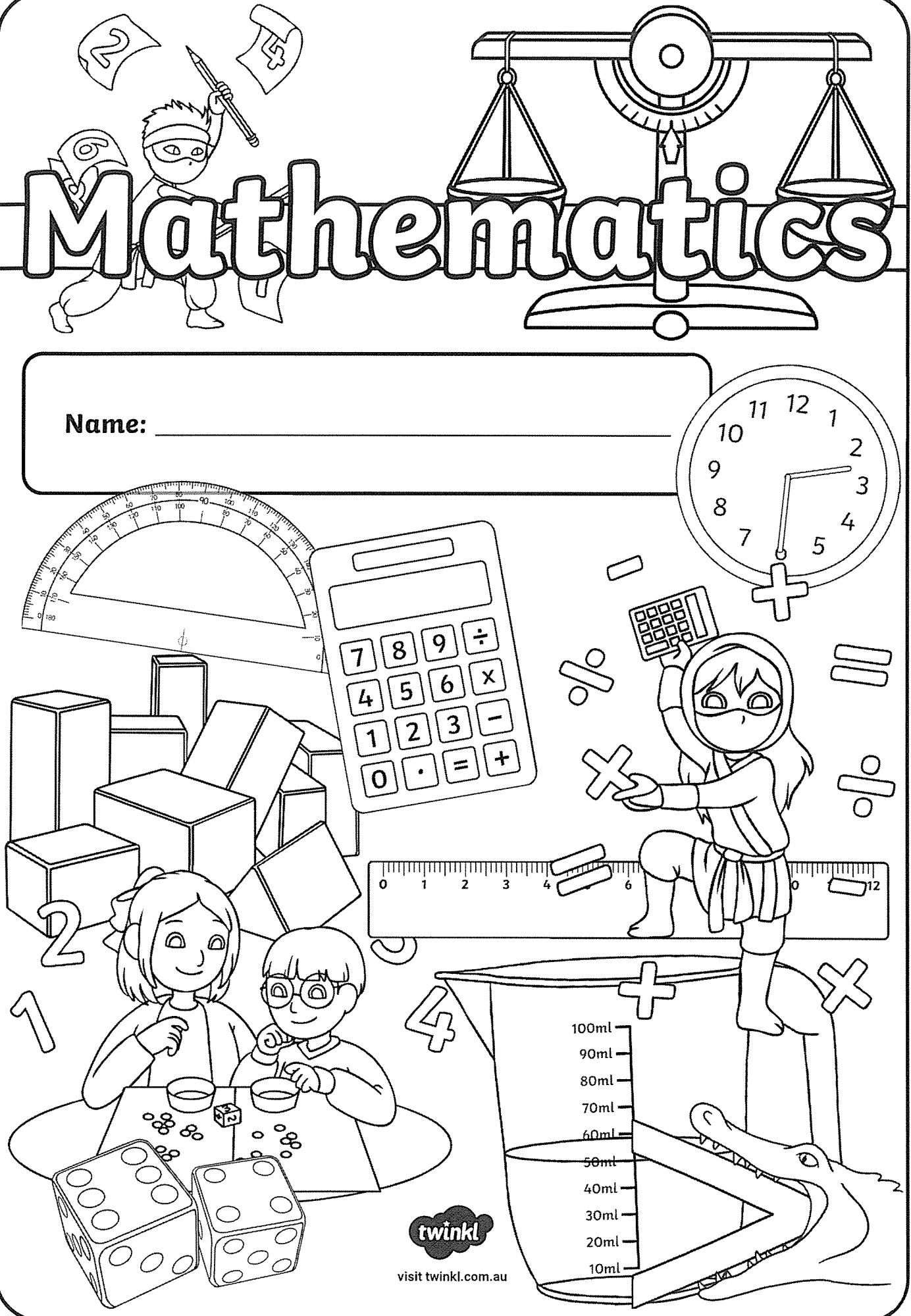


What They Eat

Did You Know...?

Mathematics

Name: _____



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Addition

Three and more 1-digit Addends



$$\begin{array}{r} 1 \quad 5 \\ \quad 4 \\ + \quad 8 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \quad 7 \\ \quad 3 \\ + \quad 5 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \quad 2 \\ \quad 4 \\ + \quad 6 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \quad 8 \\ \quad 3 \\ + \quad 4 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \quad 3 \\ \quad 9 \\ + \quad 2 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \quad 8 \\ \quad 3 \\ + \quad 8 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \quad 7 \\ \quad 9 \\ + \quad 4 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \quad 5 \\ \quad 5 \\ + \quad 3 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \quad 9 \\ \quad 1 \\ + \quad 7 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \quad 1 \\ \quad 3 \\ + \quad 9 \\ \hline \end{array}$$

$$\begin{array}{r} 11 \quad 8 \\ \quad 8 \\ + \quad 8 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \quad 4 \\ \quad 5 \\ + \quad 6 \\ \hline \end{array}$$

$$\begin{array}{r} 13 \quad 1 \\ \quad 9 \\ + \quad 1 \\ \hline \end{array}$$

$$\begin{array}{r} 14 \quad 6 \\ \quad 2 \\ + \quad 7 \\ \hline \end{array}$$

$$\begin{array}{r} 15 \quad 5 \\ \quad 9 \\ + \quad 8 \\ \hline \end{array}$$

$$\begin{array}{r} 16 \quad 6 \\ \quad 4 \\ \quad 2 \\ + \quad 3 \\ \hline \end{array}$$

$$\begin{array}{r} 17 \quad 8 \\ \quad 2 \\ \quad 1 \\ + \quad 9 \\ \hline \end{array}$$

$$\begin{array}{r} 18 \quad 4 \\ \quad 7 \\ \quad 7 \\ + \quad 1 \\ \hline \end{array}$$

$$\begin{array}{r} 19 \quad 3 \\ \quad 3 \\ \quad 9 \\ + \quad 5 \\ \hline \end{array}$$

$$\begin{array}{r} 20 \quad 8 \\ \quad 3 \\ \quad 8 \\ + \quad 1 \\ \hline \end{array}$$

$$\begin{array}{r} 21 \quad 4 \\ \quad 2 \\ \quad 8 \\ + \quad 6 \\ \hline \end{array}$$

$$\begin{array}{r} 22 \quad 5 \\ \quad 3 \\ \quad 5 \\ + \quad 5 \\ \hline \end{array}$$

$$\begin{array}{r} 23 \quad 1 \\ \quad 1 \\ \quad 7 \\ + \quad 6 \\ \hline \end{array}$$

$$\begin{array}{r} 24 \quad 4 \\ \quad 8 \\ \quad 3 \\ + \quad 9 \\ \hline \end{array}$$

$$\begin{array}{r} 25 \quad 1 \\ \quad 9 \\ \quad 9 \\ + \quad 6 \\ \hline \end{array}$$

$$\begin{array}{r} 26 \quad 4 \\ \quad 4 \\ \quad 7 \\ + \quad 7 \\ \hline \end{array}$$

$$\begin{array}{r} 27 \quad 3 \\ \quad 8 \\ \quad 1 \\ + \quad 7 \\ \hline \end{array}$$

$$\begin{array}{r} 28 \quad 8 \\ \quad 2 \\ \quad 9 \\ + \quad 4 \\ \hline \end{array}$$

$$\begin{array}{r} 29 \quad 9 \\ \quad 9 \\ \quad 5 \\ + \quad 2 \\ \hline \end{array}$$

$$\begin{array}{r} 30 \quad 8 \\ \quad 3 \\ \quad 9 \\ + \quad 1 \\ \hline \end{array}$$

$$\begin{array}{r} 31 \quad 7 \\ \quad 6 \\ \quad 7 \\ \quad 4 \\ + \quad 2 \\ \hline \end{array}$$

$$\begin{array}{r} 32 \quad 5 \\ \quad 1 \\ \quad 3 \\ \quad 9 \\ + \quad 4 \\ \hline \end{array}$$

$$\begin{array}{r} 33 \quad 8 \\ \quad 4 \\ \quad 5 \\ \quad 1 \\ + \quad 4 \\ \hline \end{array}$$

$$\begin{array}{r} 34 \quad 3 \\ \quad 8 \\ \quad 1 \\ \quad 4 \\ + \quad 5 \\ \hline \end{array}$$

$$\begin{array}{r} 35 \quad 2 \\ \quad 8 \\ \quad 1 \\ \quad 1 \\ + \quad 6 \\ \hline \end{array}$$

$$\begin{array}{r} 36 \quad 9 \\ \quad 2 \\ \quad 3 \\ \quad 2 \\ + \quad 7 \\ \hline \end{array}$$

$$\begin{array}{r} 37 \quad 3 \\ \quad 4 \\ \quad 1 \\ \quad 8 \\ + \quad 5 \\ \hline \end{array}$$

$$\begin{array}{r} 38 \quad 3 \\ \quad 2 \\ \quad 8 \\ \quad 2 \\ + \quad 1 \\ \hline \end{array}$$

$$\begin{array}{r} 39 \quad 4 \\ \quad 7 \\ \quad 5 \\ \quad 2 \\ + \quad 9 \\ \hline \end{array}$$

$$\begin{array}{r} 40 \quad 5 \\ \quad 3 \\ \quad 7 \\ \quad 9 \\ + \quad 1 \\ \hline \end{array}$$



Addition

Two 2-digit Addends (no carrying)



$$\begin{array}{r} 1 \quad 35 \\ + 42 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \quad 27 \\ + 51 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \quad 36 \\ + 23 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \quad 64 \\ + 35 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \quad 52 \\ + 34 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \quad 17 \\ + 60 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \quad 42 \\ + 46 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \quad 65 \\ + 23 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \quad 64 \\ + 20 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \quad 43 \\ + 43 \\ \hline \end{array}$$

$$\begin{array}{r} 11 \quad 36 \\ + 61 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \quad 34 \\ + 34 \\ \hline \end{array}$$

$$\begin{array}{r} 13 \quad 53 \\ + 32 \\ \hline \end{array}$$

$$\begin{array}{r} 14 \quad 71 \\ + 13 \\ \hline \end{array}$$

$$\begin{array}{r} 15 \quad 65 \\ + 33 \\ \hline \end{array}$$

$$\begin{array}{r} 16 \quad 44 \\ + 33 \\ \hline \end{array}$$

$$\begin{array}{r} 17 \quad 56 \\ + 23 \\ \hline \end{array}$$

$$\begin{array}{r} 18 \quad 18 \\ + 81 \\ \hline \end{array}$$

$$\begin{array}{r} 19 \quad 23 \\ + 55 \\ \hline \end{array}$$

$$\begin{array}{r} 20 \quad 37 \\ + 42 \\ \hline \end{array}$$

$$\begin{array}{r} 21 \quad 47 \\ + 12 \\ \hline \end{array}$$

$$\begin{array}{r} 22 \quad 37 \\ + 22 \\ \hline \end{array}$$

$$\begin{array}{r} 23 \quad 52 \\ + 22 \\ \hline \end{array}$$

$$\begin{array}{r} 24 \quad 60 \\ + 24 \\ \hline \end{array}$$

$$\begin{array}{r} 25 \quad 42 \\ + 36 \\ \hline \end{array}$$

$$\begin{array}{r} 26 \quad 34 \\ + 43 \\ \hline \end{array}$$

$$\begin{array}{r} 27 \quad 16 \\ + 23 \\ \hline \end{array}$$

$$\begin{array}{r} 28 \quad 73 \\ + 22 \\ \hline \end{array}$$

$$\begin{array}{r} 29 \quad 61 \\ + 15 \\ \hline \end{array}$$

$$\begin{array}{r} 30 \quad 67 \\ + 22 \\ \hline \end{array}$$

$$\begin{array}{r} 31 \quad 43 \\ + 45 \\ \hline \end{array}$$

$$\begin{array}{r} 32 \quad 55 \\ + 13 \\ \hline \end{array}$$

$$\begin{array}{r} 33 \quad 84 \\ + 14 \\ \hline \end{array}$$

$$\begin{array}{r} 34 \quad 46 \\ + 12 \\ \hline \end{array}$$

$$\begin{array}{r} 35 \quad 43 \\ + 34 \\ \hline \end{array}$$

$$\begin{array}{r} 36 \quad 28 \\ + 31 \\ \hline \end{array}$$

$$\begin{array}{r} 37 \quad 53 \\ + 26 \\ \hline \end{array}$$

$$\begin{array}{r} 38 \quad 26 \\ + 31 \\ \hline \end{array}$$

$$\begin{array}{r} 39 \quad 42 \\ + 13 \\ \hline \end{array}$$

$$\begin{array}{r} 40 \quad 19 \\ + 60 \\ \hline \end{array}$$

$$\begin{array}{r} 41 \quad 70 \\ + 26 \\ \hline \end{array}$$

$$\begin{array}{r} 42 \quad 25 \\ + 24 \\ \hline \end{array}$$

$$\begin{array}{r} 43 \quad 33 \\ + 24 \\ \hline \end{array}$$

$$\begin{array}{r} 44 \quad 84 \\ + 13 \\ \hline \end{array}$$

$$\begin{array}{r} 45 \quad 25 \\ + 44 \\ \hline \end{array}$$

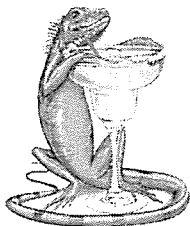


Addition

Two 2-digit Addends (carrying required)



1	47 + <u>38</u>	2	49 + <u>26</u>	3	26 + <u>36</u>	4	19 + <u>57</u>	5	76 + <u>14</u>
6	54 + <u>28</u>	7	61 + <u>19</u>	8	37 + <u>27</u>	9	49 + <u>19</u>	10	32 + <u>49</u>
11	29 + <u>45</u>	12	63 + <u>18</u>	13	46 + <u>46</u>	14	51 + <u>29</u>	15	28 + <u>44</u>
16	43 + <u>17</u>	17	74 + <u>19</u>	18	28 + <u>18</u>	19	35 + <u>15</u>	20	63 + <u>27</u>
21	55 + <u>28</u>	22	57 + <u>39</u>	23	36 + <u>17</u>	24	63 + <u>28</u>	25	53 + <u>19</u>
26	30 + <u>89</u>	27	67 + <u>42</u>	28	76 + <u>33</u>	29	54 + <u>55</u>	30	38 + <u>81</u>
31	67 + <u>52</u>	32	45 + <u>64</u>	33	65 + <u>53</u>	34	37 + <u>71</u>	35	29 + <u>80</u>
36	56 + <u>67</u>	37	78 + <u>45</u>	38	76 + <u>85</u>	39	87 + <u>74</u>	40	93 + <u>19</u>
41	65 + <u>56</u>	42	76 + <u>77</u>	43	67 + <u>48</u>	44	74 + <u>56</u>	45	79 + <u>39</u>



Addition

Three and more 2-digit Addends (carrying required)



<p>1</p> $\begin{array}{r} 37 \\ 16 \\ + 34 \\ \hline \end{array}$	<p>2</p> $\begin{array}{r} 54 \\ 22 \\ + 19 \\ \hline \end{array}$	<p>3</p> $\begin{array}{r} 29 \\ 40 \\ + 13 \\ \hline \end{array}$	<p>4</p> $\begin{array}{r} 12 \\ 14 \\ + 65 \\ \hline \end{array}$	<p>5</p> $\begin{array}{r} 28 \\ 18 \\ + 37 \\ \hline \end{array}$
<p>6</p> $\begin{array}{r} 42 \\ 24 \\ + 29 \\ \hline \end{array}$	<p>7</p> $\begin{array}{r} 17 \\ 27 \\ + 37 \\ \hline \end{array}$	<p>8</p> $\begin{array}{r} 43 \\ 13 \\ + 28 \\ \hline \end{array}$	<p>9</p> $\begin{array}{r} 11 \\ 32 \\ + 37 \\ \hline \end{array}$	<p>10</p> $\begin{array}{r} 31 \\ 21 \\ + 39 \\ \hline \end{array}$
<p>11</p> $\begin{array}{r} 16 \\ 26 \\ 16 \\ + 26 \\ \hline \end{array}$	<p>12</p> $\begin{array}{r} 23 \\ 15 \\ 20 \\ + 18 \\ \hline \end{array}$	<p>13</p> $\begin{array}{r} 42 \\ 13 \\ 15 \\ + 11 \\ \hline \end{array}$	<p>14</p> $\begin{array}{r} 34 \\ 14 \\ 24 \\ + 14 \\ \hline \end{array}$	<p>15</p> $\begin{array}{r} 30 \\ 12 \\ 15 \\ + 19 \\ \hline \end{array}$
<p>16</p> $\begin{array}{r} 41 \\ 20 \\ 35 \\ + 25 \\ \hline \end{array}$	<p>17</p> $\begin{array}{r} 15 \\ 75 \\ 15 \\ + 19 \\ \hline \end{array}$	<p>18</p> $\begin{array}{r} 38 \\ 48 \\ 18 \\ + 28 \\ \hline \end{array}$	<p>19</p> $\begin{array}{r} 37 \\ 17 \\ 16 \\ + 56 \\ \hline \end{array}$	<p>20</p> $\begin{array}{r} 38 \\ 19 \\ 43 \\ + 44 \\ \hline \end{array}$
<p>21</p> $\begin{array}{r} 17 \\ 16 \\ 15 \\ 14 \\ + 13 \\ \hline \end{array}$	<p>22</p> $\begin{array}{r} 21 \\ 14 \\ 16 \\ 20 \\ + 18 \\ \hline \end{array}$	<p>23</p> $\begin{array}{r} 18 \\ 17 \\ 10 \\ 22 \\ + 19 \\ \hline \end{array}$	<p>24</p> $\begin{array}{r} 19 \\ 20 \\ 11 \\ 18 \\ + 24 \\ \hline \end{array}$	<p>25</p> $\begin{array}{r} 21 \\ 12 \\ 13 \\ 11 \\ + 24 \\ \hline \end{array}$
<p>26</p> $\begin{array}{r} 33 \\ 22 \\ 14 \\ 23 \\ + 43 \\ \hline \end{array}$	<p>27</p> $\begin{array}{r} 46 \\ 54 \\ 17 \\ 18 \\ + 53 \\ \hline \end{array}$	<p>28</p> $\begin{array}{r} 63 \\ 46 \\ 75 \\ 80 \\ + 37 \\ \hline \end{array}$	<p>29</p> $\begin{array}{r} 67 \\ 67 \\ 50 \\ 67 \\ + 47 \\ \hline \end{array}$	<p>30</p> $\begin{array}{r} 29 \\ 19 \\ 39 \\ 79 \\ + 45 \\ \hline \end{array}$



Addition

Two 3-digit Addends (carrying required)



- | | | | | |
|---|---|---|---|---|
| 1
$\$4.65$
+ $\underline{\$3.45}$ | 2
268 ml
+ $\underline{427 \text{ ml}}$ | 3
457 kg
+ $\underline{439 \text{ kg}}$ | 4
\$2.75
+ $\underline{\$6.05}$ | 5
278 m
+ $\underline{318 \text{ m}}$ |
| 6
458 km
+ $\underline{356 \text{ km}}$ | 7
547 kg
+ $\underline{297 \text{ kg}}$ | 8
\$5.65
+ $\underline{\$1.65}$ | 9
526 ml
+ $\underline{187 \text{ ml}}$ | 10
458 km
+ $\underline{387 \text{ km}}$ |
| 11
\$1.70
+ $\underline{\$5.80}$ | 12
567 days
+ $\underline{386 \text{ days}}$ | 13
296 kg
+ $\underline{296 \text{ kg}}$ | 14
188 g
+ $\underline{649 \text{ g}}$ | 15
566 km
+ $\underline{266 \text{ km}}$ |
| 16
755 ml
+ $\underline{155 \text{ ml}}$ | 17
\$5.65
+ $\underline{\$2.75}$ | 18
665 km
+ $\underline{168 \text{ km}}$ | 19
489 kg
+ $\underline{295 \text{ kg}}$ | 20
\$7.85
+ $\underline{\$1.55}$ |
| 21
447 m
+ $\underline{268 \text{ m}}$ | 22
395 km
+ $\underline{265 \text{ km}}$ | 23
\$4.75
+ $\underline{\$2.55}$ | 24
356 ml
+ $\underline{655 \text{ ml}}$ | 25
366 km
+ $\underline{577 \text{ km}}$ |
| 26
\$6.85
+ $\underline{\$5.85}$ | 27
758 kg
+ $\underline{658 \text{ kg}}$ | 28
432 km
+ $\underline{599 \text{ km}}$ | 29
\$7.95
+ $\underline{\$9.05}$ | 30
768 days
+ $\underline{699 \text{ days}}$ |
| 31
755 ml
+ $\underline{655 \text{ ml}}$ | 32
898 km
+ $\underline{108 \text{ km}}$ | 33
\$9.25
+ $\underline{\$0.75}$ | 34
785 m
+ $\underline{216 \text{ m}}$ | 35
999 kg
+ $\underline{444 \text{ kg}}$ |
| 36
706 km
+ $\underline{694 \text{ km}}$ | 37
643 kg
+ $\underline{557 \text{ kg}}$ | 38
659 ml
+ $\underline{548 \text{ ml}}$ | 39
\$5.45
+ $\underline{\$4.55}$ | 40
407 km
+ $\underline{593 \text{ km}}$ |
| 41
\$8.75
+ $\underline{\$6.75}$ | 42
434 m
+ $\underline{874 \text{ m}}$ | 43
368 km
+ $\underline{899 \text{ km}}$ | 44
698 ml
+ $\underline{508 \text{ ml}}$ | 45
999 kg
+ $\underline{999 \text{ kg}}$ |



Subtraction

2-digit minuend, 1 and 2-digit subtrahend (no borrowing)



$$\begin{array}{r} 1 \quad 56 \\ - \quad 44 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \quad 75 \\ - \quad 30 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \quad 36 \\ - \quad 4 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \quad 68 \\ - \quad 22 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \quad 78 \\ - \quad 35 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \quad 58 \\ - \quad 7 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \quad 72 \\ - \quad 61 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \quad 84 \\ - \quad 42 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \quad 39 \\ - \quad 7 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \quad 46 \\ - \quad 3 \\ \hline \end{array}$$

$$\begin{array}{r} 11 \quad 67 \\ - \quad 20 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \quad 88 \\ - \quad 5 \\ \hline \end{array}$$

$$\begin{array}{r} 13 \quad 67 \\ - \quad 23 \\ \hline \end{array}$$

$$\begin{array}{r} 14 \quad 59 \\ - \quad 21 \\ \hline \end{array}$$

$$\begin{array}{r} 15 \quad 63 \\ - \quad 31 \\ \hline \end{array}$$

$$\begin{array}{r} 16 \quad 87 \\ - \quad 45 \\ \hline \end{array}$$

$$\begin{array}{r} 17 \quad 99 \\ - \quad 36 \\ \hline \end{array}$$

$$\begin{array}{r} 18 \quad 95 \\ - \quad 3 \\ \hline \end{array}$$

$$\begin{array}{r} 19 \quad 26 \\ - \quad 3 \\ \hline \end{array}$$

$$\begin{array}{r} 20 \quad 17 \\ - \quad 6 \\ \hline \end{array}$$

$$\begin{array}{r} 21 \quad 66 \\ - \quad 33 \\ \hline \end{array}$$

$$\begin{array}{r} 22 \quad 81 \\ - \quad 11 \\ \hline \end{array}$$

$$\begin{array}{r} 23 \quad 45 \\ - \quad 5 \\ \hline \end{array}$$

$$\begin{array}{r} 24 \quad 34 \\ - \quad 13 \\ \hline \end{array}$$

$$\begin{array}{r} 25 \quad 45 \\ - \quad 23 \\ \hline \end{array}$$

$$\begin{array}{r} 26 \quad 69 \\ - \quad 44 \\ \hline \end{array}$$

$$\begin{array}{r} 27 \quad 65 \\ - \quad 30 \\ \hline \end{array}$$

$$\begin{array}{r} 28 \quad 68 \\ - \quad 17 \\ \hline \end{array}$$

$$\begin{array}{r} 29 \quad 66 \\ - \quad 5 \\ \hline \end{array}$$

$$\begin{array}{r} 30 \quad 53 \\ - \quad 12 \\ \hline \end{array}$$

$$\begin{array}{r} 31 \quad 94 \\ - \quad 51 \\ \hline \end{array}$$

$$\begin{array}{r} 32 \quad 68 \\ - \quad 7 \\ \hline \end{array}$$

$$\begin{array}{r} 33 \quad 47 \\ - \quad 31 \\ \hline \end{array}$$

$$\begin{array}{r} 34 \quad 68 \\ - \quad 25 \\ \hline \end{array}$$

$$\begin{array}{r} 35 \quad 82 \\ - \quad 21 \\ \hline \end{array}$$

$$\begin{array}{r} 36 \quad 37 \\ - \quad 15 \\ \hline \end{array}$$

$$\begin{array}{r} 37 \quad 58 \\ - \quad 6 \\ \hline \end{array}$$

$$\begin{array}{r} 38 \quad 49 \\ - \quad 4 \\ \hline \end{array}$$

$$\begin{array}{r} 39 \quad 56 \\ - \quad 43 \\ \hline \end{array}$$

$$\begin{array}{r} 40 \quad 55 \\ - \quad 44 \\ \hline \end{array}$$

$$\begin{array}{r} 41 \quad 48 \\ - \quad 31 \\ \hline \end{array}$$

$$\begin{array}{r} 42 \quad 18 \\ - \quad 5 \\ \hline \end{array}$$

$$\begin{array}{r} 43 \quad 27 \\ - \quad 6 \\ \hline \end{array}$$

$$\begin{array}{r} 44 \quad 45 \\ - \quad 34 \\ \hline \end{array}$$

$$\begin{array}{r} 45 \quad 18 \\ - \quad 8 \\ \hline \end{array}$$

$$\begin{array}{r} 46 \quad 27 \\ - \quad 3 \\ \hline \end{array}$$

$$\begin{array}{r} 47 \quad 69 \\ - \quad 5 \\ \hline \end{array}$$

$$\begin{array}{r} 48 \quad 73 \\ - \quad 21 \\ \hline \end{array}$$

$$\begin{array}{r} 49 \quad 56 \\ - \quad 22 \\ \hline \end{array}$$

$$\begin{array}{r} 50 \quad 38 \\ - \quad 6 \\ \hline \end{array}$$



Subtraction

2-digit minuend, 1 & 2-digit subtrahend (borrowing required)



$$\begin{array}{r} 1 \quad 73 \\ - \quad 29 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \quad 46 \\ - \quad 17 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \quad 50 \\ - \quad \quad 4 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \quad 72 \\ - \quad 57 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \quad 24 \\ - \quad \quad 9 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \quad 42 \\ - \quad \quad 4 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \quad 56 \\ - \quad 28 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \quad 83 \\ - \quad 48 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \quad 41 \\ - \quad \quad 6 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \quad 55 \\ - \quad \quad 8 \\ \hline \end{array}$$

$$\begin{array}{r} 11 \quad 83 \\ - \quad 26 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \quad 72 \\ - \quad \quad 8 \\ \hline \end{array}$$

$$\begin{array}{r} 13 \quad 44 \\ - \quad 27 \\ \hline \end{array}$$

$$\begin{array}{r} 14 \quad 65 \\ - \quad 17 \\ \hline \end{array}$$

$$\begin{array}{r} 15 \quad 90 \\ - \quad 26 \\ \hline \end{array}$$

$$\begin{array}{r} 16 \quad 81 \\ - \quad 44 \\ \hline \end{array}$$

$$\begin{array}{r} 17 \quad 93 \\ - \quad 37 \\ \hline \end{array}$$

$$\begin{array}{r} 18 \quad 91 \\ - \quad \quad 7 \\ \hline \end{array}$$

$$\begin{array}{r} 19 \quad 43 \\ - \quad \quad 9 \\ \hline \end{array}$$

$$\begin{array}{r} 20 \quad 53 \\ - \quad \quad 8 \\ \hline \end{array}$$

$$\begin{array}{r} 21 \quad 64 \\ - \quad 28 \\ \hline \end{array}$$

$$\begin{array}{r} 22 \quad 80 \\ - \quad 11 \\ \hline \end{array}$$

$$\begin{array}{r} 23 \quad 44 \\ - \quad \quad 9 \\ \hline \end{array}$$

$$\begin{array}{r} 24 \quad 32 \\ - \quad 18 \\ \hline \end{array}$$

$$\begin{array}{r} 25 \quad 54 \\ - \quad 29 \\ \hline \end{array}$$

$$\begin{array}{r} 26 \quad 78 \\ - \quad 39 \\ \hline \end{array}$$

$$\begin{array}{r} 27 \quad 66 \\ - \quad 38 \\ \hline \end{array}$$

$$\begin{array}{r} 28 \quad 60 \\ - \quad 17 \\ \hline \end{array}$$

$$\begin{array}{r} 29 \quad 63 \\ - \quad \quad 7 \\ \hline \end{array}$$

$$\begin{array}{r} 30 \quad 44 \\ - \quad 15 \\ \hline \end{array}$$

$$\begin{array}{r} 31 \quad 92 \\ - \quad 56 \\ \hline \end{array}$$

$$\begin{array}{r} 32 \quad 64 \\ - \quad \quad 6 \\ \hline \end{array}$$

$$\begin{array}{r} 33 \quad 40 \\ - \quad 31 \\ \hline \end{array}$$

$$\begin{array}{r} 34 \quad 65 \\ - \quad 26 \\ \hline \end{array}$$

$$\begin{array}{r} 35 \quad 80 \\ - \quad 29 \\ \hline \end{array}$$

$$\begin{array}{r} 36 \quad 32 \\ - \quad 27 \\ \hline \end{array}$$

$$\begin{array}{r} 37 \quad 53 \\ - \quad \quad 6 \\ \hline \end{array}$$

$$\begin{array}{r} 38 \quad 44 \\ - \quad \quad 7 \\ \hline \end{array}$$

$$\begin{array}{r} 39 \quad 55 \\ - \quad 37 \\ \hline \end{array}$$

$$\begin{array}{r} 40 \quad 44 \\ - \quad 16 \\ \hline \end{array}$$

$$\begin{array}{r} 41 \quad 63 \\ - \quad 39 \\ \hline \end{array}$$

$$\begin{array}{r} 42 \quad 37 \\ - \quad \quad 8 \\ \hline \end{array}$$

$$\begin{array}{r} 43 \quad 36 \\ - \quad \quad 9 \\ \hline \end{array}$$

$$\begin{array}{r} 44 \quad 41 \\ - \quad 36 \\ \hline \end{array}$$

$$\begin{array}{r} 45 \quad 27 \\ - \quad \quad 8 \\ \hline \end{array}$$

$$\begin{array}{r} 46 \quad 32 \\ - \quad \quad 4 \\ \hline \end{array}$$

$$\begin{array}{r} 47 \quad 64 \\ - \quad \quad 9 \\ \hline \end{array}$$

$$\begin{array}{r} 48 \quad 77 \\ - \quad 28 \\ \hline \end{array}$$

$$\begin{array}{r} 49 \quad 53 \\ - \quad 28 \\ \hline \end{array}$$

$$\begin{array}{r} 50 \quad 33 \\ - \quad \quad 6 \\ \hline \end{array}$$



Subtraction

3-digit minuend, 2 and 3-digit subtrahend (no borrowing)



$$\begin{array}{r} 1 \quad 452 \\ - 231 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \quad 758 \\ - 45 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \quad 794 \\ - 174 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \quad 804 \\ - 601 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \quad 773 \\ - 51 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \quad 707 \\ - 305 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \quad 553 \\ - 20 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \quad 784 \\ - 453 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \quad 999 \\ - 74 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \quad 384 \\ - 70 \\ \hline \end{array}$$

$$\begin{array}{r} 11 \quad 875 \\ - 63 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \quad 798 \\ - 756 \\ \hline \end{array}$$

$$\begin{array}{r} 13 \quad 908 \\ - 402 \\ \hline \end{array}$$

$$\begin{array}{r} 14 \quad 645 \\ - 445 \\ \hline \end{array}$$

$$\begin{array}{r} 15 \quad 453 \\ - 42 \\ \hline \end{array}$$

$$\begin{array}{r} 16 \quad 649 \\ - 431 \\ \hline \end{array}$$

$$\begin{array}{r} 17 \quad 784 \\ - 351 \\ \hline \end{array}$$

$$\begin{array}{r} 18 \quad 794 \\ - 73 \\ \hline \end{array}$$

$$\begin{array}{r} 19 \quad 879 \\ - 57 \\ \hline \end{array}$$

$$\begin{array}{r} 20 \quad 394 \\ - 64 \\ \hline \end{array}$$

$$\begin{array}{r} 21 \quad 674 \\ - 543 \\ \hline \end{array}$$

$$\begin{array}{r} 22 \quad 576 \\ - 66 \\ \hline \end{array}$$

$$\begin{array}{r} 23 \quad 274 \\ - 132 \\ \hline \end{array}$$

$$\begin{array}{r} 24 \quad 974 \\ - 42 \\ \hline \end{array}$$

$$\begin{array}{r} 25 \quad 854 \\ - 542 \\ \hline \end{array}$$

$$\begin{array}{r} 26 \quad 885 \\ - 55 \\ \hline \end{array}$$

$$\begin{array}{r} 27 \quad 749 \\ - 449 \\ \hline \end{array}$$

$$\begin{array}{r} 28 \quad 453 \\ - 42 \\ \hline \end{array}$$

$$\begin{array}{r} 29 \quad 897 \\ - 97 \\ \hline \end{array}$$

$$\begin{array}{r} 30 \quad 792 \\ - 462 \\ \hline \end{array}$$

$$\begin{array}{r} 31 \quad 330 \\ - 310 \\ \hline \end{array}$$

$$\begin{array}{r} 32 \quad 459 \\ - 39 \\ \hline \end{array}$$

$$\begin{array}{r} 33 \quad 669 \\ - 426 \\ \hline \end{array}$$

$$\begin{array}{r} 34 \quad 438 \\ - 34 \\ \hline \end{array}$$

$$\begin{array}{r} 35 \quad 226 \\ - 206 \\ \hline \end{array}$$

$$\begin{array}{r} 36 \quad 658 \\ - 37 \\ \hline \end{array}$$

$$\begin{array}{r} 37 \quad 878 \\ - 468 \\ \hline \end{array}$$

$$\begin{array}{r} 38 \quad 547 \\ - 46 \\ \hline \end{array}$$

$$\begin{array}{r} 39 \quad 388 \\ - 168 \\ \hline \end{array}$$

$$\begin{array}{r} 40 \quad 361 \\ - 61 \\ \hline \end{array}$$

$$\begin{array}{r} 41 \quad 419 \\ - 206 \\ \hline \end{array}$$

$$\begin{array}{r} 42 \quad 413 \\ - 11 \\ \hline \end{array}$$

$$\begin{array}{r} 43 \quad 442 \\ - 102 \\ \hline \end{array}$$

$$\begin{array}{r} 44 \quad 699 \\ - 90 \\ \hline \end{array}$$

$$\begin{array}{r} 45 \quad 646 \\ - 136 \\ \hline \end{array}$$



Subtraction

3-digit minuend, 2 & 3-digit subtrahend (borrowing required)



$$\begin{array}{r} 1 \quad 562 \\ - 348 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \quad 437 \\ - 29 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \quad 684 \\ - 269 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \quad 650 \\ - 223 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \quad 642 \\ - 33 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \quad 363 \\ - 139 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \quad 452 \\ - 37 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \quad 466 \\ - 148 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \quad 365 \\ - 47 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \quad 578 \\ - 69 \\ \hline \end{array}$$

$$\begin{array}{r} 11 \quad 693 \\ - 55 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \quad 585 \\ - 246 \\ \hline \end{array}$$

$$\begin{array}{r} 13 \quad 381 \\ - 202 \\ \hline \end{array}$$

$$\begin{array}{r} 14 \quad 491 \\ - 268 \\ \hline \end{array}$$

$$\begin{array}{r} 15 \quad 536 \\ - 29 \\ \hline \end{array}$$

$$\begin{array}{r} 16 \quad 521 \\ - 318 \\ \hline \end{array}$$

$$\begin{array}{r} 17 \quad 545 \\ - 228 \\ \hline \end{array}$$

$$\begin{array}{r} 18 \quad 623 \\ - 17 \\ \hline \end{array}$$

$$\begin{array}{r} 19 \quad 458 \\ - 49 \\ \hline \end{array}$$

$$\begin{array}{r} 20 \quad 467 \\ - 38 \\ \hline \end{array}$$

$$\begin{array}{r} 21 \quad 990 \\ - 486 \\ \hline \end{array}$$

$$\begin{array}{r} 22 \quad 648 \\ - 29 \\ \hline \end{array}$$

$$\begin{array}{r} 23 \quad 490 \\ - 245 \\ \hline \end{array}$$

$$\begin{array}{r} 24 \quad 664 \\ - 19 \\ \hline \end{array}$$

$$\begin{array}{r} 25 \quad 376 \\ - 138 \\ \hline \end{array}$$

$$\begin{array}{r} 26 \quad 668 \\ - 87 \\ \hline \end{array}$$

$$\begin{array}{r} 27 \quad 529 \\ - 449 \\ \hline \end{array}$$

$$\begin{array}{r} 28 \quad 604 \\ - 42 \\ \hline \end{array}$$

$$\begin{array}{r} 29 \quad 637 \\ - 56 \\ \hline \end{array}$$

$$\begin{array}{r} 30 \quad 700 \\ - 210 \\ \hline \end{array}$$

$$\begin{array}{r} 31 \quad 760 \\ - 483 \\ \hline \end{array}$$

$$\begin{array}{r} 32 \quad 210 \\ - 48 \\ \hline \end{array}$$

$$\begin{array}{r} 33 \quad 700 \\ - 458 \\ \hline \end{array}$$

$$\begin{array}{r} 34 \quad 800 \\ - 89 \\ \hline \end{array}$$

$$\begin{array}{r} 35 \quad 600 \\ - 197 \\ \hline \end{array}$$

$$\begin{array}{r} 36 \quad 971 \\ - 83 \\ \hline \end{array}$$

$$\begin{array}{r} 37 \quad 563 \\ - 199 \\ \hline \end{array}$$

$$\begin{array}{r} 38 \quad 476 \\ - 88 \\ \hline \end{array}$$

$$\begin{array}{r} 39 \quad 570 \\ - 391 \\ \hline \end{array}$$

$$\begin{array}{r} 40 \quad 485 \\ - 86 \\ \hline \end{array}$$

$$\begin{array}{r} 41 \quad 500 \\ - 199 \\ \hline \end{array}$$

$$\begin{array}{r} 42 \quad 600 \\ - 23 \\ \hline \end{array}$$

$$\begin{array}{r} 43 \quad 701 \\ - 422 \\ \hline \end{array}$$

$$\begin{array}{r} 44 \quad 504 \\ - 88 \\ \hline \end{array}$$

$$\begin{array}{r} 45 \quad 513 \\ - 296 \\ \hline \end{array}$$



Subtraction

4, 5, 6 and 7-digit minuends 4, 5, 6 and 7-digit subtrahends
(no borrowing)



1	$3\ 758$ $- \underline{1\ 432}$	2	$4\ 689$ $- \underline{2\ 406}$	3	$1\ 543$ $- \underline{1\ 012}$	4	$5\ 628$ $- \underline{2\ 417}$
5	$4\ 067$ $- \underline{2\ 045}$	6	$7\ 896$ $- \underline{4\ 023}$	7	$5\ 089$ $- \underline{2\ 067}$	8	$4\ 145$ $- \underline{4\ 042}$
9	$55\ 465$ $- \underline{32\ 034}$	10	$26\ 108$ $- \underline{15\ 107}$	11	$34\ 563$ $- \underline{13\ 430}$	12	$67\ 482$ $- \underline{21\ 341}$
13	$66\ 342$ $- \underline{43\ 030}$	14	$59\ 909$ $- \underline{38\ 702}$	15	$90\ 015$ $- \underline{70\ 003}$	16	$76\ 306$ $- \underline{35\ 204}$
17	$452\ 087$ $- \underline{231\ 057}$	18	$563\ 673$ $- \underline{212\ 421}$	19	$856\ 014$ $- \underline{543\ 012}$	20	$532\ 501$ $- \underline{411\ 001}$
21	$727\ 479$ $- \underline{120\ 123}$	22	$899\ 099$ $- \underline{609\ 078}$	23	$277\ 034$ $- \underline{156\ 033}$	24	$469\ 469$ $- \underline{156\ 264}$
25	$7\ 462\ 126$ $- \underline{3\ 341\ 003}$	26	$2\ 100\ 563$ $- \underline{1\ 000\ 040}$	27	$4\ 067\ 864$ $- \underline{1\ 056\ 043}$	28	$9\ 586\ 849$ $- \underline{3\ 056\ 014}$
29	$8\ 669\ 034$ $- \underline{2\ 532\ 022}$	30	$6\ 648\ 722$ $- \underline{4\ 234\ 521}$	31	$5\ 799\ 933$ $- \underline{2\ 456\ 003}$	32	$2\ 494\ 333$ $- \underline{1\ 340\ 213}$
33	$5\ 674\ 058$ $- \underline{620\ 005}$	34	$8\ 724\ 643$ $- \underline{3\ 421}$	35	$2\ 003\ 587$ $- \underline{2\ 002\ 532}$	36	$3\ 758\ 612$ $- \underline{30\ 401}$



Subtraction

4, 5, 6 and 7-digit minuends 4, 5, 6 and 7-digit subtrahends
(borrowing required)



1	4 852 - <u>2 316</u>	2	9 567 - <u>3 548</u>	3	4 026 - <u>2 019</u>	4	9 476 - <u>1 499</u>
5	8 747 - <u>5 729</u>	6	4 655 - <u>1 438</u>	7	6 357 - <u>4 149</u>	8	6 522 - <u>3 327</u>
9	63 465 - <u>12 089</u>	10	43 442 - <u>12 367</u>	11	53 456 - <u>22 088</u>	12	74 176 - <u>43 099</u>
13	53 356 - <u>21 189</u>	14	65 577 - <u>14 398</u>	15	24 178 - <u>12 099</u>	16	58 268 - <u>24 179</u>
17	432 023 - <u>101 256</u>	18	548 268 - <u>135 799</u>	19	575 175 - <u>251 488</u>	20	987 044 - <u>266 778</u>
21	543 255 - <u>334 578</u>	22	943 467 - <u>157 789</u>	23	650 034 - <u>421 167</u>	24	656 200 - <u>439 514</u>
25	5 436 700 - <u>1 469 877</u>	26	4 612 412 - <u>2 438 686</u>	27	5 223 100 - <u>3 156 939</u>	28	7 541 002 - <u>2 288 996</u>
29	6 010 020 - <u>1 342 567</u>	30	7 000 743 - <u>5 243 889</u>	31	6 520 000 - <u>3 687 741</u>	32	6 400 000 - <u>3 711 237</u>
33	7 000 000 - <u>521 569</u>	34	9 000 000 - <u>4 111</u>	35	5 000 000 - <u>1 212 111</u>	36	1 000 000 - <u>41 738</u>



Addition & Subtraction

Review



$\begin{array}{r} \boxed{1} \quad 346 \\ + \quad 378 \\ \hline \end{array}$	$\begin{array}{r} \boxed{2} \quad 809 \\ + \quad 474 \\ \hline \end{array}$	$\begin{array}{r} \boxed{3} \quad 545 \\ + \quad 859 \\ \hline \end{array}$	$\begin{array}{r} \boxed{4} \quad 602 \\ + \quad 578 \\ \hline \end{array}$	$\begin{array}{r} \boxed{5} \quad 679 \\ + \quad 794 \\ \hline \end{array}$
$\begin{array}{r} \boxed{6} \quad 45 \\ \quad 74 \\ \quad 32 \\ + \quad 48 \\ \hline \end{array}$	$\begin{array}{r} \boxed{7} \quad 88 \\ \quad 52 \\ \quad 69 \\ + \quad 21 \\ \hline \end{array}$	$\begin{array}{r} \boxed{8} \quad 58 \\ \quad 52 \\ \quad 28 \\ + \quad 77 \\ \hline \end{array}$	$\begin{array}{r} \boxed{9} \quad 64 \\ \quad 99 \\ \quad 65 \\ + \quad 64 \\ \hline \end{array}$	$\begin{array}{r} \boxed{10} \quad 43 \\ \quad 27 \\ \quad 83 \\ + \quad 62 \\ \hline \end{array}$
$\begin{array}{r} \boxed{11} \quad 56 \\ \quad 22 \\ \quad 68 \\ \quad 94 \\ + \quad 29 \\ \hline \end{array}$	$\begin{array}{r} \boxed{12} \quad 12 \\ \quad 88 \\ \quad 94 \\ \quad 99 \\ + \quad 22 \\ \hline \end{array}$	$\begin{array}{r} \boxed{13} \quad 33 \\ \quad 48 \\ \quad 75 \\ \quad 89 \\ + \quad 23 \\ \hline \end{array}$	$\begin{array}{r} \boxed{14} \quad 53 \\ \quad 78 \\ \quad 88 \\ \quad 63 \\ + \quad 53 \\ \hline \end{array}$	$\begin{array}{r} \boxed{15} \quad 84 \\ \quad 39 \\ \quad 84 \\ \quad 23 \\ + \quad 60 \\ \hline \end{array}$
$\begin{array}{r} \boxed{16} \quad 73 \\ - \quad 27 \\ \hline \end{array}$	$\begin{array}{r} \boxed{17} \quad 90 \\ - \quad 48 \\ \hline \end{array}$	$\begin{array}{r} \boxed{18} \quad 55 \\ - \quad 18 \\ \hline \end{array}$	$\begin{array}{r} \boxed{19} \quad 63 \\ - \quad 39 \\ \hline \end{array}$	$\begin{array}{r} \boxed{20} \quad 40 \\ - \quad 26 \\ \hline \end{array}$
$\begin{array}{r} \boxed{21} \quad 532 \\ - \quad 278 \\ \hline \end{array}$	$\begin{array}{r} \boxed{22} \quad 645 \\ - \quad 89 \\ \hline \end{array}$	$\begin{array}{r} \boxed{23} \quad 630 \\ - \quad 279 \\ \hline \end{array}$	$\begin{array}{r} \boxed{24} \quad 500 \\ - \quad 396 \\ \hline \end{array}$	$\begin{array}{r} \boxed{25} \quad 600 \\ - \quad 467 \\ \hline \end{array}$
$\begin{array}{r} \boxed{26} \quad 6\ 758 \\ - \quad 1\ 789 \\ \hline \end{array}$	$\begin{array}{r} \boxed{27} \quad 7\ 600 \\ - \quad 3\ 863 \\ \hline \end{array}$	$\begin{array}{r} \boxed{28} \quad 9\ 496 \\ - \quad 2\ 678 \\ \hline \end{array}$	$\begin{array}{r} \boxed{29} \quad 7\ 777 \\ - \quad 1\ 969 \\ \hline \end{array}$	$\begin{array}{r} \boxed{30} \quad 4\ 000 \\ - \quad 3\ 204 \\ \hline \end{array}$
$\begin{array}{r} \boxed{31} \quad 57\ 467 \\ - \quad 29\ 768 \\ \hline \end{array}$	$\begin{array}{r} \boxed{32} \quad 70\ 056 \\ - \quad 20\ 789 \\ \hline \end{array}$	$\begin{array}{r} \boxed{33} \quad 30\ 001 \\ - \quad 19\ 442 \\ \hline \end{array}$	$\begin{array}{r} \boxed{34} \quad 50\ 002 \\ - \quad 27\ 888 \\ \hline \end{array}$	$\begin{array}{r} \boxed{35} \quad 10\ 000 \\ - \quad 7\ 909 \\ \hline \end{array}$
$\begin{array}{r} \boxed{36} \quad 375\ 674 \\ - \quad 128\ 809 \\ \hline \end{array}$	$\begin{array}{r} \boxed{37} \quad 901\ 006 \\ - \quad 123\ 088 \\ \hline \end{array}$	$\begin{array}{r} \boxed{38} \quad 512\ 801 \\ - \quad 318\ 338 \\ \hline \end{array}$	$\begin{array}{r} \boxed{39} \quad 200\ 012 \\ - \quad 123\ 664 \\ \hline \end{array}$	$\begin{array}{r} \boxed{40} \quad 600\ 000 \\ - \quad 278\ 992 \\ \hline \end{array}$
$\begin{array}{r} \boxed{41} \quad 5\ 012\ 300 \\ - \quad 2\ 132\ 889 \\ \hline \end{array}$	$\begin{array}{r} \boxed{42} \quad 7\ 000\ 134 \\ - \quad 3\ 884\ 012 \\ \hline \end{array}$	$\begin{array}{r} \boxed{43} \quad 4\ 002\ 001 \\ - \quad 1\ 999\ 393 \\ \hline \end{array}$	$\begin{array}{r} \boxed{44} \quad 4\ 993\ 112 \\ - \quad 2\ 880\ 228 \\ \hline \end{array}$	$\begin{array}{r} \boxed{45} \quad 9\ 000\ 003 \\ - \quad 2\ 004\ 009 \\ \hline \end{array}$
$\begin{array}{r} \boxed{46} \quad 5\ 000\ 000 \\ - \quad 1\ 999\ 999 \\ \hline \end{array}$	$\begin{array}{r} \boxed{47} \quad 3\ 700\ 100 \\ - \quad 1\ 699\ 099 \\ \hline \end{array}$	$\begin{array}{r} \boxed{48} \quad 4\ 000\ 101 \\ - \quad 3\ 001\ 090 \\ \hline \end{array}$	$\begin{array}{r} \boxed{49} \quad 4\ 576\ 002 \\ - \quad 2\ 947\ 102 \\ \hline \end{array}$	$\begin{array}{r} \boxed{50} \quad 6\ 234\ 000 \\ - \quad 4\ 990\ 028 \\ \hline \end{array}$

Geography



Name: _____

Tokyo Fact Sheet

Name: Date:

Facts about Tokyo

Country:

Population:

Currency:

Language:

Someone famous from Tokyo

A famous landmark in Tokyo

Other facts about Tokyo

Science

Week 2 and 3

Over the next two weeks

Research one of the scientists who are in this booklet and write an information report about them.

Who are they? Where did they live? What type of Science did they research? What did they discover? What difference did they make to the world of science?

My Informative Prewriting Template

The template consists of a central circle labeled "Topic" with four surrounding rectangular boxes, each labeled "Fact". Each box contains several horizontal lines for writing.

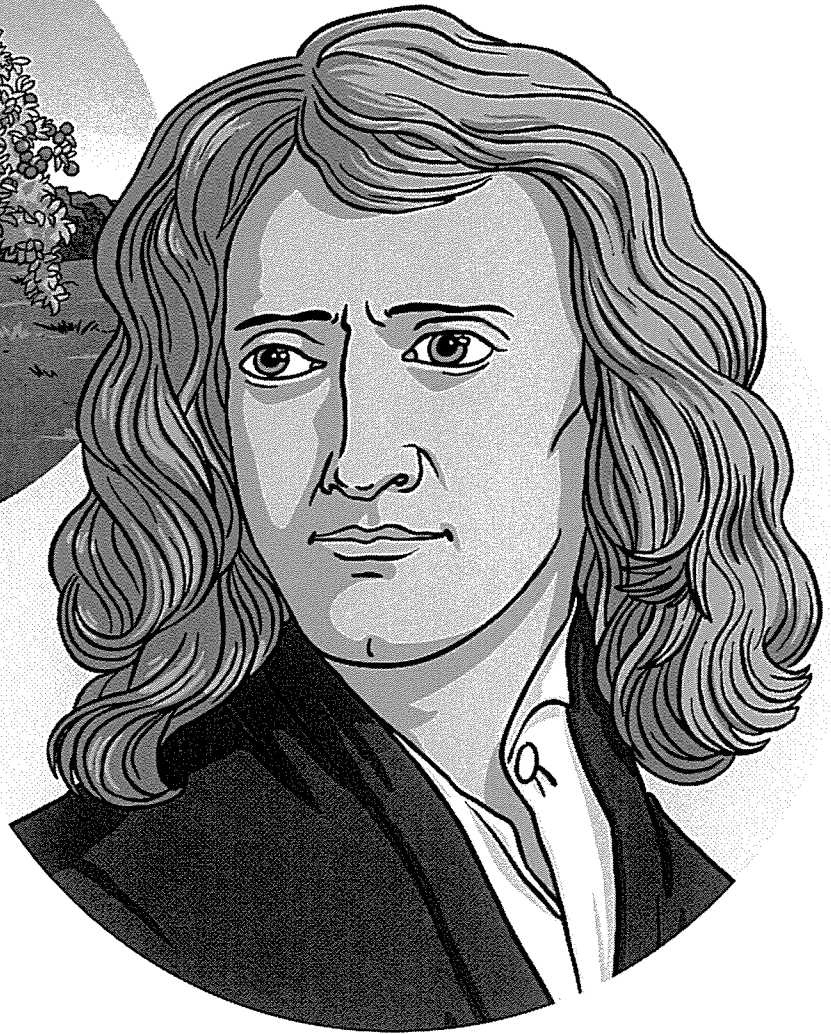
Game Changers and Change Makers



Carl Linnaeus

Carl Linnaeus is credited with organising and naming living things. He created the hierarchy for identifying, naming and classifying living organisms.

Game Changers and Change Makers



Isaac Newton

Sir Isaac Newton studied gravity and developed three laws of motion which now form the basis for physics studied today. He also discovered calculus which led into more powerful mathematical equations.

Game Changers and Change Makers



Indigenous Australians Nicolaus Copernicus Galileo Galilei

These people were all astronomers. Indigenous Australians were among the first astronomers. Copernicus thought that the Sun was the centre of the Solar System, not Earth. Galilei carefully watched moons through a telescope and proved that the Earth goes around the Sun.

Game Changers and Change Makers



Stephen Hawking

Stephen Hawking made many scientific theories which revolutionized the way physicists think about the universe. He discovered a type of radiation that can escape black holes. This is now called Hawking radiation.

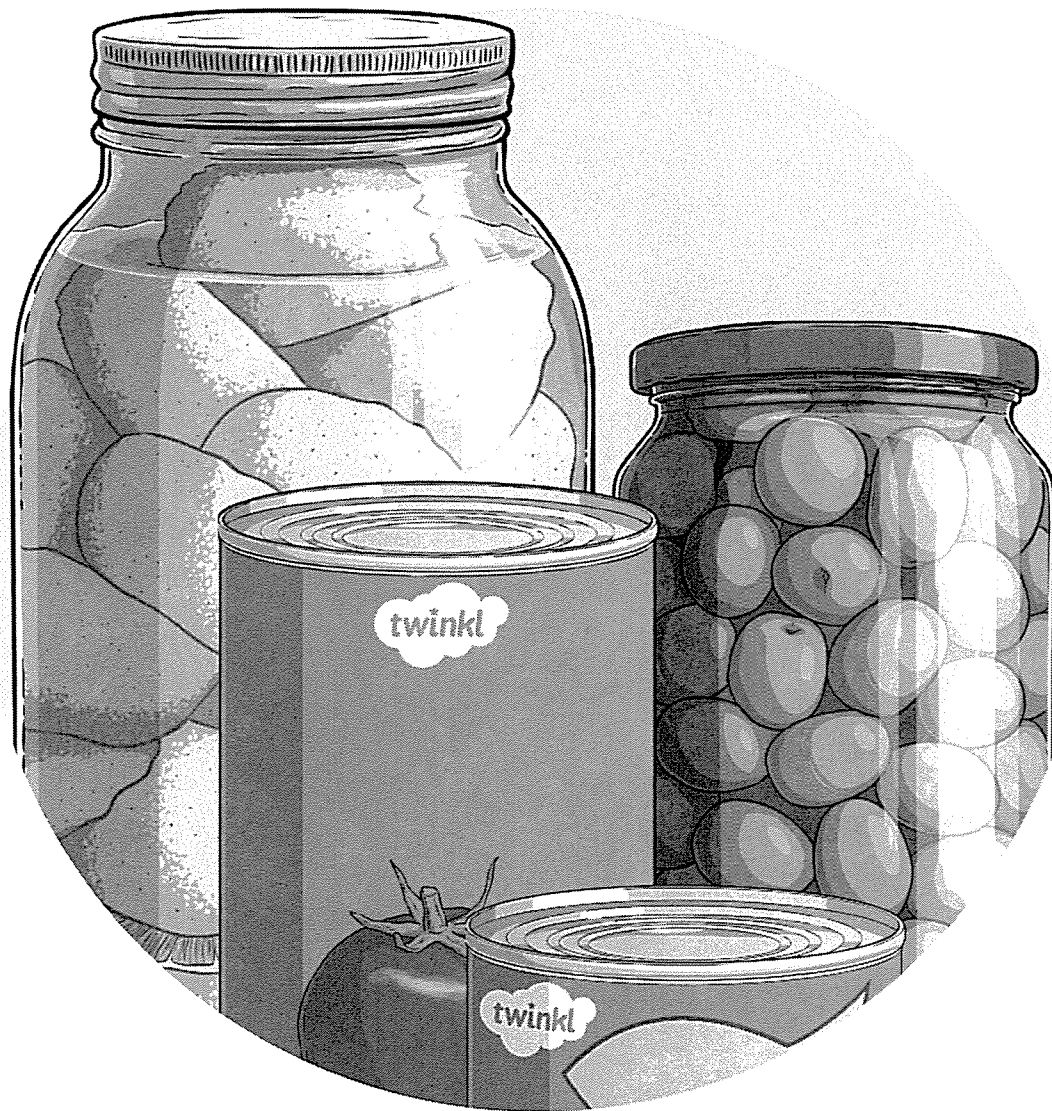
Game Changers and Change Makers



Mary Shelley

Mary Shelley wrote the story 'Frankenstein' in 1818. Her story inspired people to think about robots, combining humans with machines and artificial body parts.

Game Changers and Change Makers



Nicholas Appert

Nicholas Appert discovered new ways to preserve food.

Game Changers and Change Makers



Alexander Fleming

Alexander Fleming discovered penicillin. Penicillin is a drug used to treat bacterial disease and helped to save many lives, especially in the Second World War.

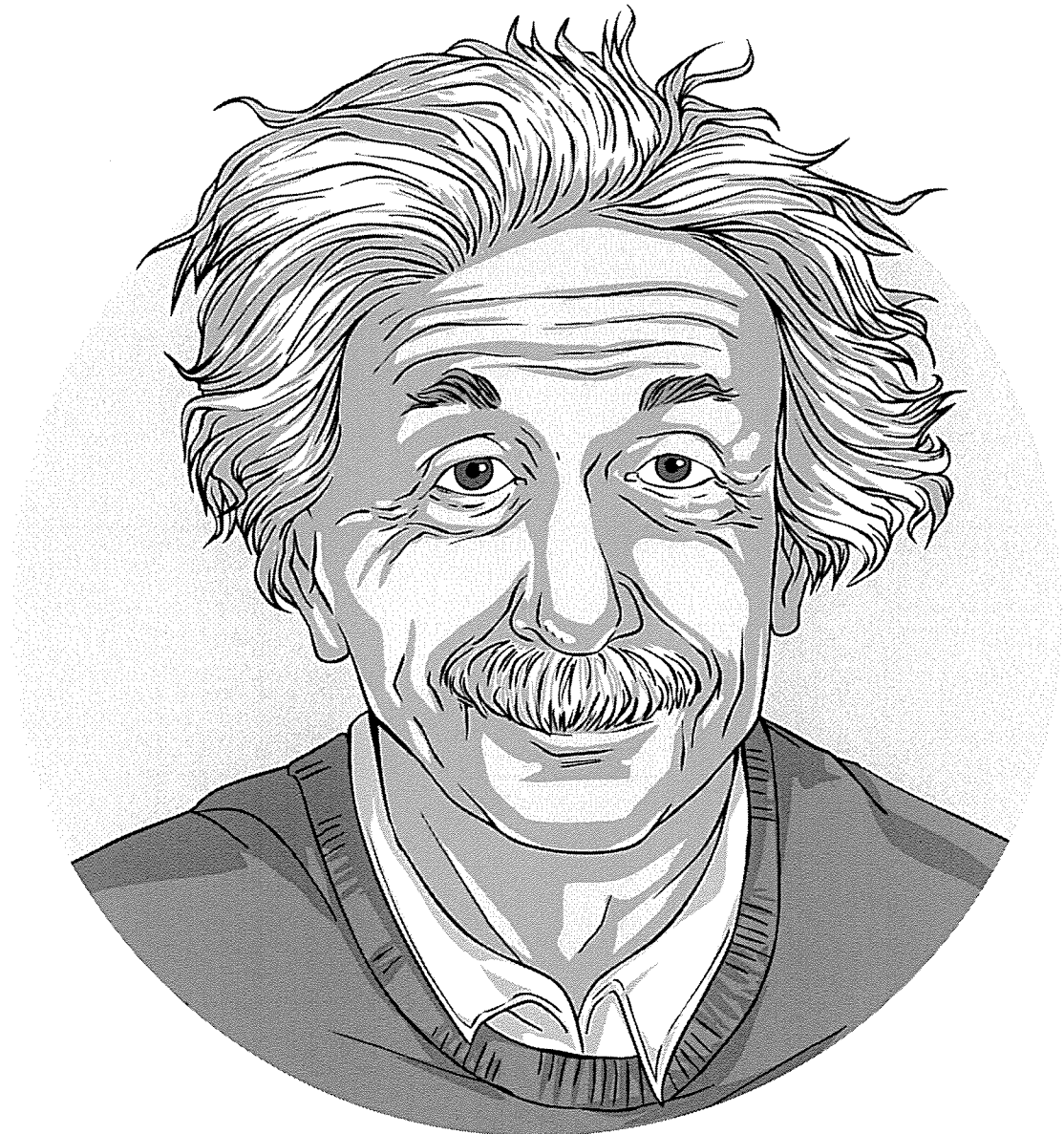
Game Changers and Change Makers



Marie Curie

Marie Curie discovered radioactivity which is used medically in x-rays, gamma rays, electron beams and to destroy cancer cells.

Game Changers and Change Makers



Albert Einstein

Albert Einstein made many discoveries but is most famous for his theory of relativity ($E = MC^2$).

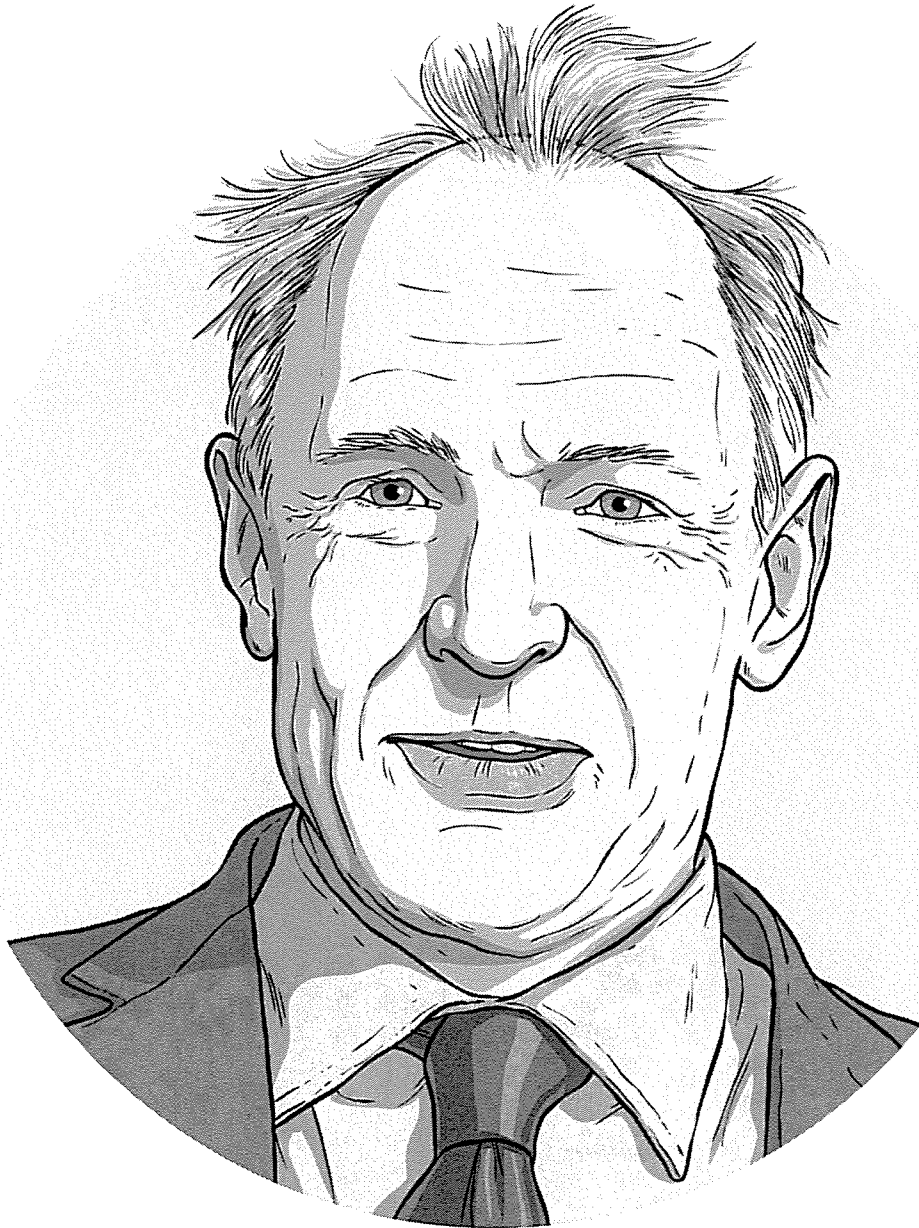
Game Changers and Change Makers



Orville and Wilbur Wright

Orville and Wilbur Wright were the first to build and fly a powered aircraft in controlled flights.

Game Changers and Change Makers



Timothy Berners-Lee

Sir Timothy Berners-Lee invented the World Wide Web and is still developing it today.

Game Changers and Change Makers



Jonas Salk

Jonas Salk developed the polio vaccine to fight polio, a crippling and infectious disease that was potentially deadly.

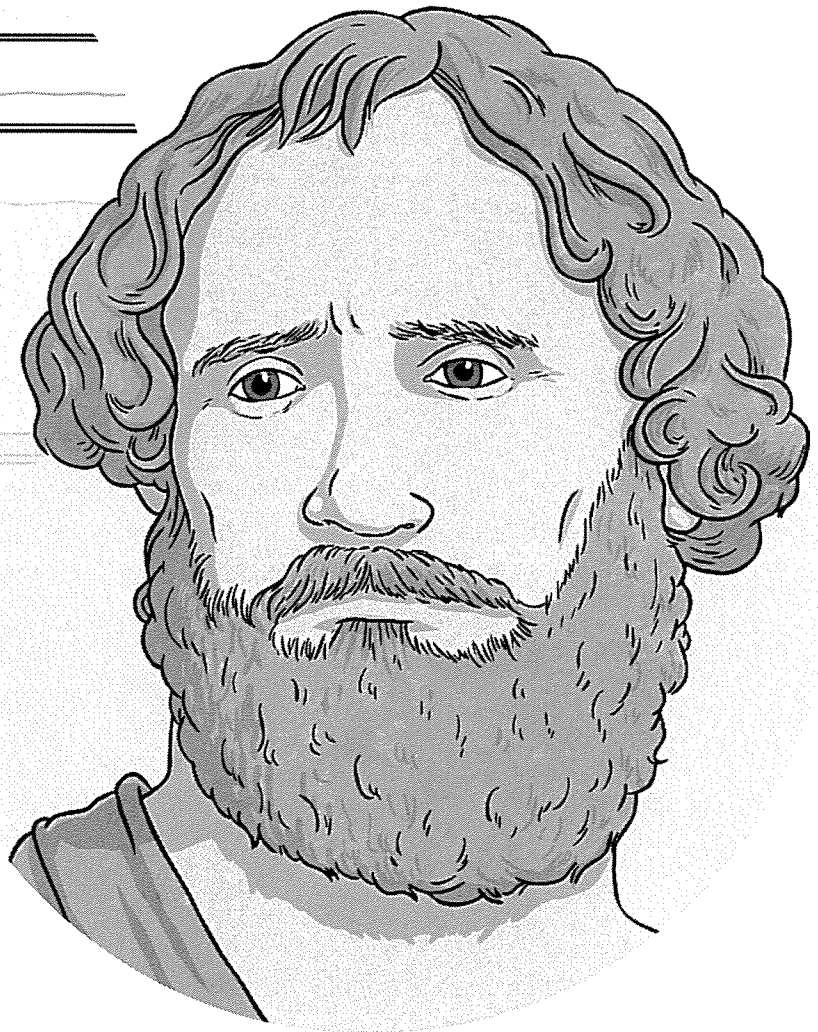
Game Changers and Change Makers



Ada Lovelace

Ada Lovelace was a mathematician and is considered the first computer programmer.

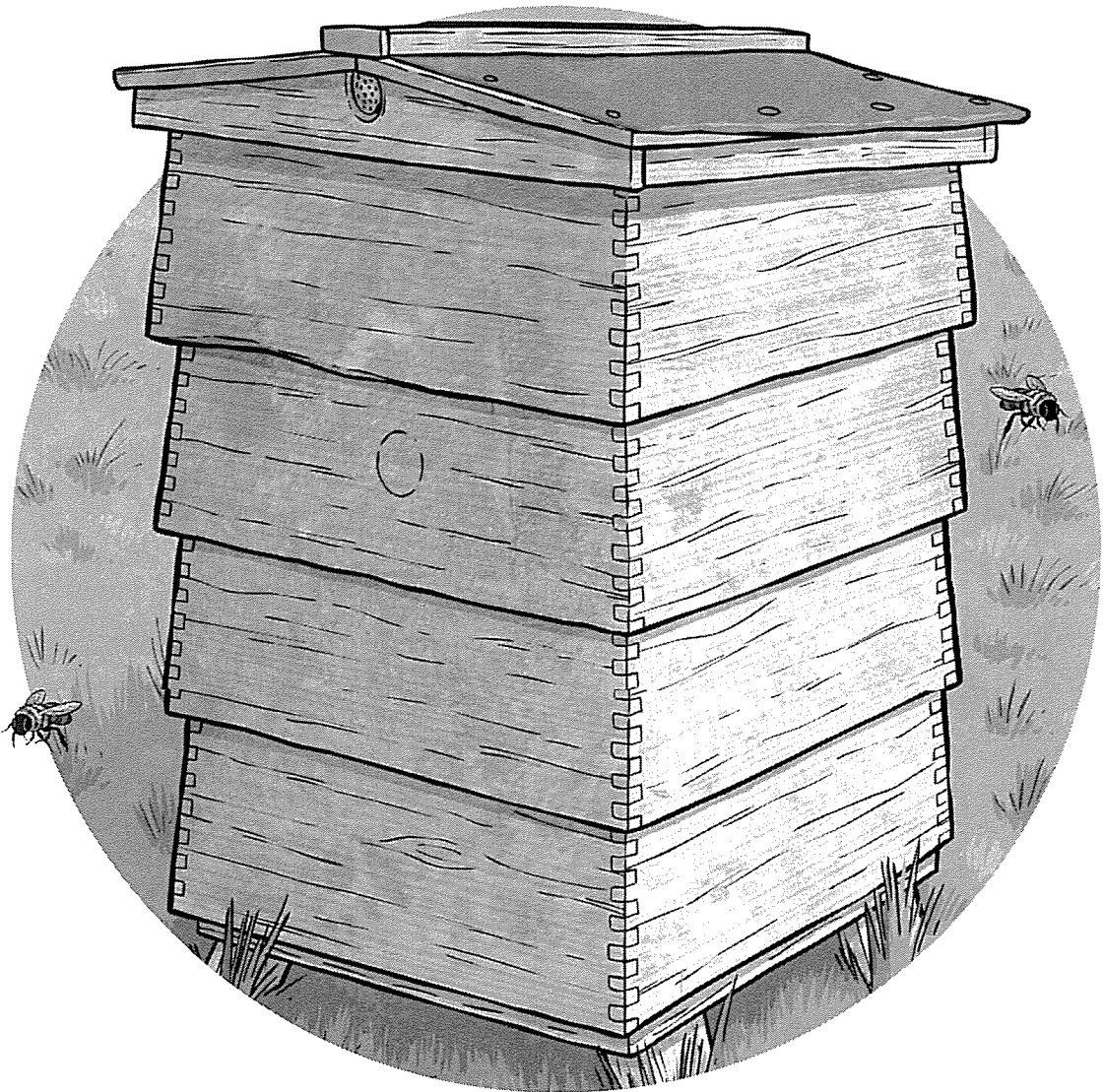
Game Changers and Change Makers



Archimedes

Archimedes discovered the answer to why things float or sink.

Game Changers and Change Makers



Lorenzo Langstroth

The beehive that we use today was invented in 1851 by Lorenzo Langstroth. He was an apiarist, clergyman and teacher. He is considered the father of American beekeeping.

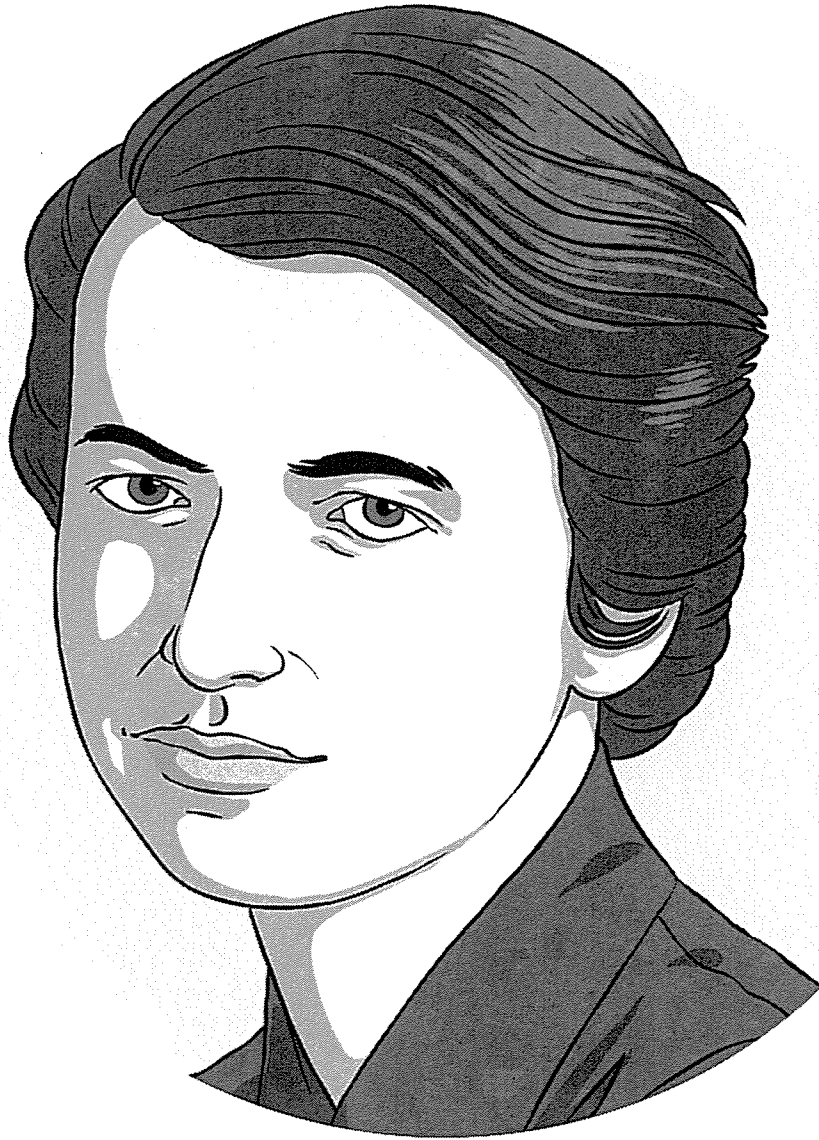
Game Changers and Change Makers



Mary Anning

Mary Anning is one of the earliest fossil hunters and was the first person to uncover a full Ichthyosaurus skeleton. Anning discovered her first fossils while walking along the Dorset coast where she lived.

Game Changers and Change Makers



Rosalind Franklin

Rosalind Franklin is a British chemist who discovered the structure of DNA. She also did pioneering work on X-ray diffraction which is used to determine the structures of molecules such as DNA.

Game Changers and Change Makers



Katherine Johnson

Katherine Johnson was a mathematician who worked for NASA and calculated the flight paths of many spacecraft over the course of 30 years. Johnson was part of the team that calculated where and when to launch the rocket for the Apollo 11 mission in 1969 which sent the first three men to the moon.

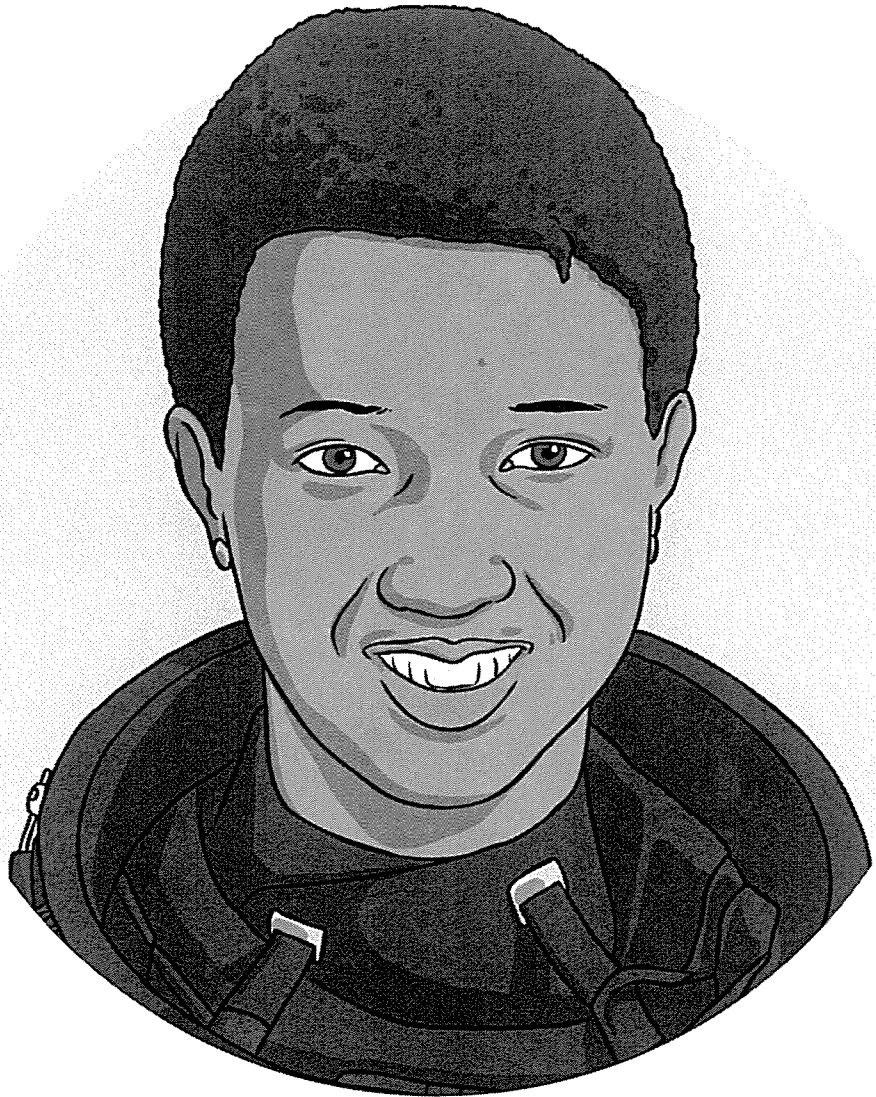
Game Changers and Change Makers



George Washington Carver

George Washington Carver was an American scientist and teacher who is famous for many agricultural discoveries and inventions. Born into slavery, Carver went on to become a brilliant botanist and later devised more than 300 ways in which to use the peanut.

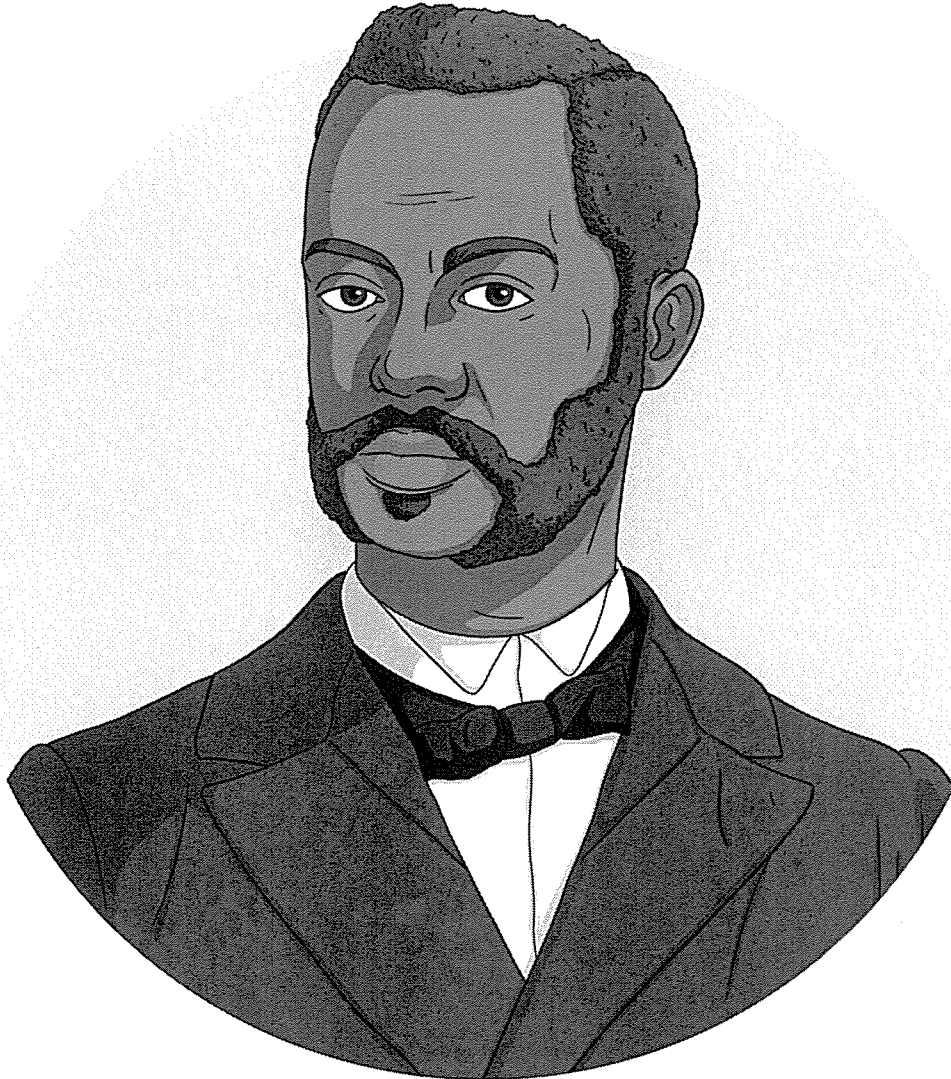
Game Changers and Change Makers



Mae Jemison

In 1992, Mae Jemison became the first African-American woman to travel to space. Jemison first trained as a doctor and worked as a medical officer for the Peace Corps. During her time in space, Jemison conducted lots of experiments, earning herself a number of awards such as the 1988 Essence Science and Technology Award.

Game Changers and Change Makers



Charles H. Turner

Charles H. Turner was a behavioural scientist whose research focused on animal behaviour. Turner is most famous for his discovery that insects can hear. Through his research, he also found that honeybees could recognise colours and patterns and have some idea of time.

Health and

Physical

Education

Name: _____

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Teacher Notes

This activity is designed to help your students understand the character strengths and values of an Olympic athlete. The information below is a set of suggestions for how the activity can be used and completed.

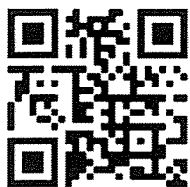
Before

Prepare the activity sheet 'What do Olympic athletes need to succeed?'

You may like to have a discussion with your students about what they have seen, heard and noticed when watching an Olympic sport or particular athletes. What skills or strengths did the athlete or athletes show?

During

Pose the question to your students 'What do Olympic athletes need to succeed?'. Before completing the attached activity, students watch the video either as a class or individually using the QR code provided. This will help students to understand what is involved in becoming an Olympic athlete.



It may be helpful for students to watch the video twice before recording their ideas on the 'What Do Olympic Athletes Need to Succeed' activity sheet.

After students have recorded their ideas, you may like to have a class discussion about what they noticed and what they feel are the key traits needed for an athlete to succeed. This could also be completed in pairs.

Possible responses may include:

- determination
- courage
- resilience
- hard work
- practice
- perseverance
- trust
- self-belief

After

Encourage your students to share the findings they recorded on the 'What Do Olympic Athletes Need to Succeed' activity sheet in a creative way, such as word cloud or a collage. They could then be added to a classroom display.

Here are some useful word cloud builder tools you may wish to use:

https://www.abcya.com/games/word_clouds

Simply type the preferred words into the text box provided and click 'Generate' when complete. Students are then able to alter the colour and layout of their design.

<https://worditout.com/word-cloud/create>

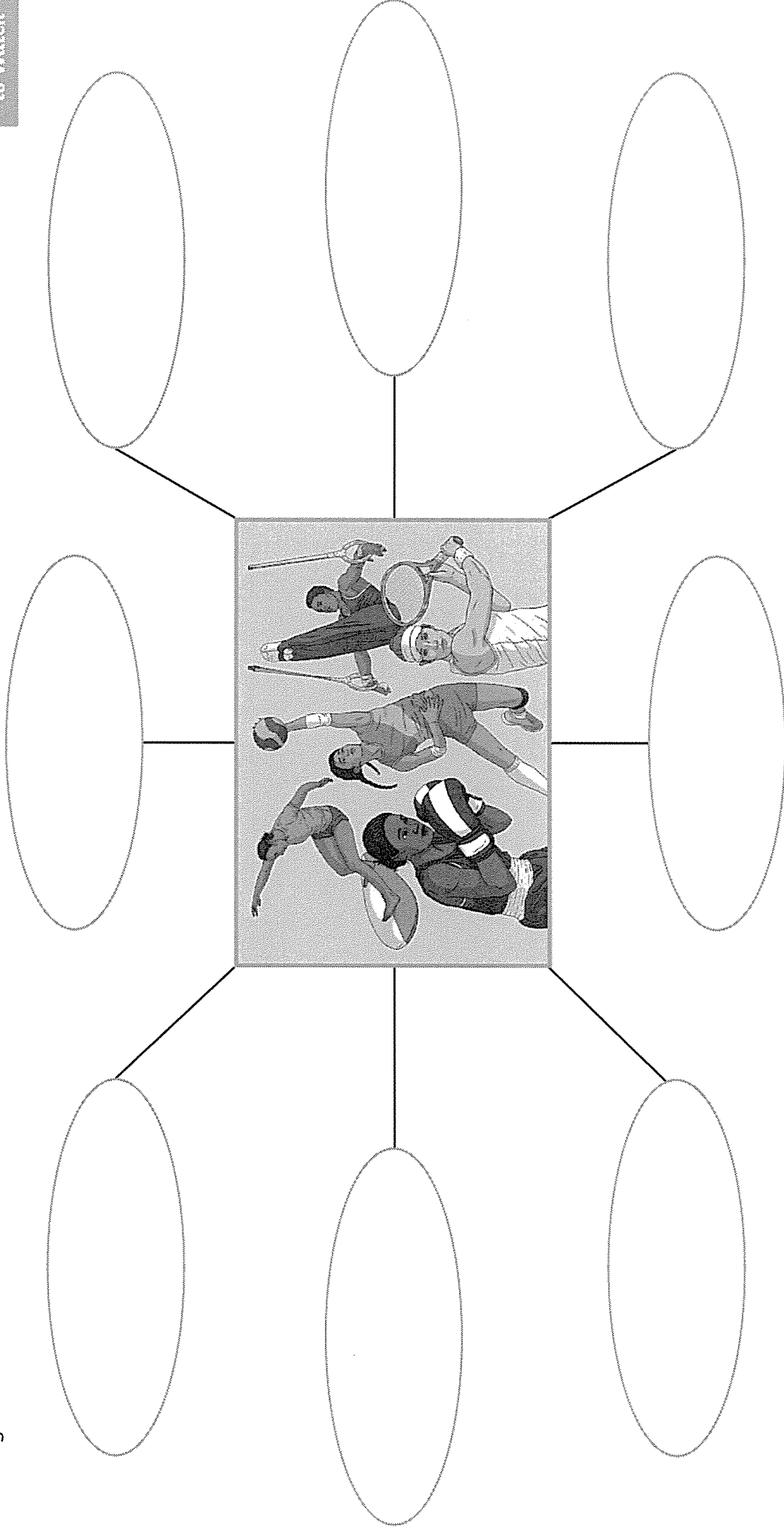
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What Do Olympic Athletes Need to Succeed?



Athletes
to Watch

Watch the 'Athletes to Watch' video. What strengths or characteristics do you think an Olympian would need to succeed?
Record your ideas in the bubbles below.



Visual Arts

Name: _____



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Week 2 - Pack 1 -Year 3 & 4

Creative Arts – Where the Creatures Roam

Things you need

Have these things available so your child can complete this task.

Ideal	Back up
Computer	Smartphone
Paper and pencils	Crayons or textas
Paints and paint brushes	
‘Where the Creatures Roam’ (click here to access)	

Before I start

Make sure your child has everything ready that they will need at the start of the lesson including a print out of the lyrics or the lyrics on screen.

Check that the videos and audio files are working and that the volume is turned up on your device.

Discuss with your child:

- What is a mythical creature?
- Remind children that the characters in the song are mythical and not real.
- Were there mythical creatures that you thought about or were perhaps afraid of as a child? Discuss this as a household.
- What mythical creatures are a part of different cultures around the world such as the Loch Ness Monster or the Yeti?

What my child needs to know and do

2. Listen to and follow the score (a written representation of music) of 'Where the Creatures Roam'. Get to know the song using the video.
3. Keep the beat to reinforce the process of learning the song. Remember that the beat stays the same and is the pulse underneath the music.
4. Try to identify the sounds of the instruments being played. Why do you think the composer may have chosen these instruments to represent mythical African creatures?
5. Learn to sing the song using the lyrics to Where the Creatures Roam. Use the video to help with learning about the process of reading a musical score.

What to do next

1. Follow the video of 'Where the Creatures Roam' ([click here to access](#)).
2. Identify the mythical creatures used in 'Where the Creatures Roam'. In Zulu mythology, Tikoloshe is a dwarf-like water sprite. A Ninki Nanka is a legendary creature in West African folklore that is reptilian and possibly dragon-like. Yumboes are a kind of fairy in the mythology of the Wolof people in Senegal, West Africa.
3. Draw a picture of a mythical creature of your choice. Focus on the shapes and colours of your creatures. Show what type of creature your monster is by giving them an expression on their face.
4. Talk to someone in your family about your artwork or write down some words to describe your monster. Are they scary or kind? Display your picture.

Options for your child

Activity too hard?	Activity too easy?
Follow the score and learn the song. Create your own mythical creature.	Sample the sounds of your mythical creature and arrange them in GarageBand as a composition.

Extend the learning

Explore Australian mythical creatures such as the 'bunyip'. Create another artwork to reflect these creatures.