





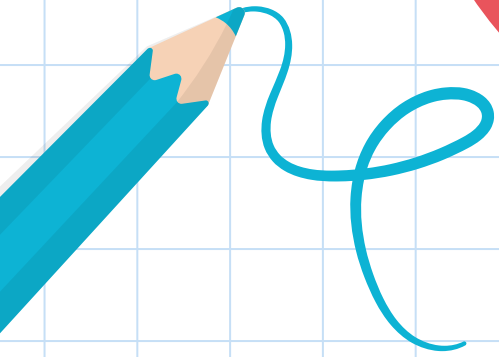
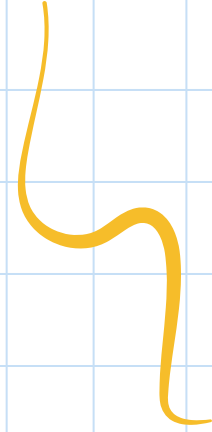
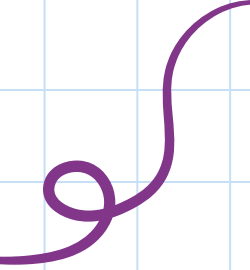


# Stage 3

Term 4 Week 2






# DAILY SCHEDULE

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
	Check in	Check in	Check in	Check in	Check in
Morning	Daily 5	Daily 5	<p><b>Wellbeing Wednesday!</b></p>  Spend time with family  Stay physically active <p>Do activities you love</p>   Get enough sleep and rest	Daily 5	Reading and Comprehension
Middle	Maths	Maths		Maths	Maths
	Brain Break	Brain Break		Brain Break	Brain Break
Afternoon	Integrated Unit	Library with Mrs McPhan		Science and Technology (Mr Quigley's Google Classroom)	Integrated Unit



There is nothing  
in a caterpillar  
that tells you it  
is going to be a  
butterfly.

# How am I feeling today?



DAILY 5

Week 2

# Activities Checklist!!

## Quality Work

Make sure you are completing all of the activities and that your work is **quality**.

Set a timer. Work for the **WHOLE** amount of time required.

**Check** your work before turning it in.

## Spelling:

	List	Activity
Tuesday	<input type="checkbox"/>	<input type="checkbox"/>
Thursday	<input type="checkbox"/>	<input type="checkbox"/>
Friday	<input type="checkbox"/>	<input type="checkbox"/>

## Work on Writing:

- ☐ Read information
- ☐ Look at examples
- ☐ Research facts
- ☐ Sizzling Starts

## To Do

- ☐ Read to self #1 & Reading Response
- ☐ Read to self #2 & Reading Response
- ☐ Listen to Reading
- ☐ Read to Someone

# SPELLING



# SPELLING INSTRUCTIONS



## Monday

1. Read the rule
2. Type and check list words
3. Complete Phonological Activity

## Tuesday

1. Type and check list words
2. Complete Morphemic Activity

## Thursday

1. Type and check list words
  2. Complete Etymological activity
- 

# WEEK 1: SPELLING RULE

Phonological	<p>/s/ soft c sound</p> <p>Usually <b>g</b> and <b>c</b> make their soft sound when they are followed by <b>e</b> or <b>i</b>.</p>
Morphemic	<ul style="list-style-type: none"><li>• If a noun ends in a vowel + <b>y</b>, add <b>-s</b> to form the plural.</li><li>• If a noun ends in a <b>consonant</b> + <b>y</b>, change <b>y</b> to <b>i</b> then add <b>es</b> to form the plural.</li></ul>
Etymological	<p>phon / phono (Greek) → sound</p> <p>photo / phos (Greek) → light</p>



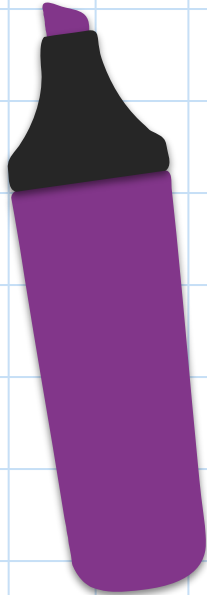
# WEEK 1: SPELLING LIST

Sight words	Phonological	Morphemic	Etymological	Theme	Extension
<div>home jump play ran read</div>	<div>cell fact success cylinder rescue</div>	<div>replies keys injuries delays enemies</div>	<div>disagreement disapprove disobey disconnect disrespect</div>	<div>mindfulness empathy respect compassion awareness</div>	<div>unworthy vile dazzling angst magnanimous</div>



Type your Monday list here...

--	--	--	--	--



# T4 W2 Phonological spelling activities

Sort the words into the following. Can you add any other words?

excite

physical

recognise

location

comb

certain

scenery

science

police

cut

card

collection

cereal

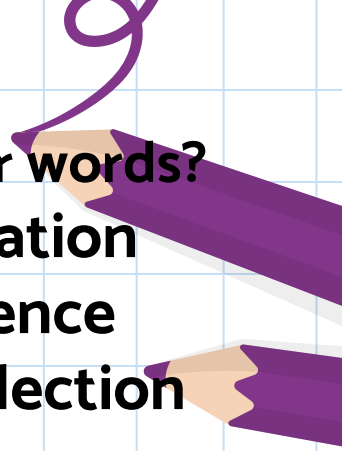
cast

candle

city

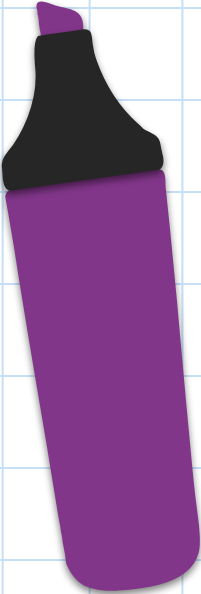
Soft c sound

Hard c sound



Type your Tuesday list here...

--	--	--	--	--



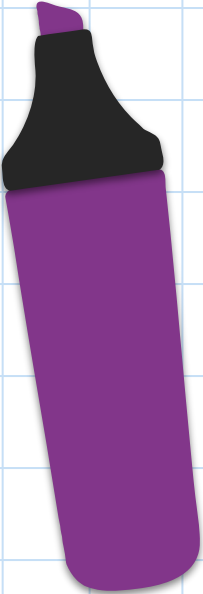
## T4 W2 Morphemic spelling activities

- If a noun ends in a **vowel + y**, add **-s** to form the plural.
- If a noun ends in a **consonant + y**, change **y** to **i** then add **es** to form the plural.

<u>Word</u>	<u>Plural</u>	<u>Word</u>	<u>Plural</u>
trolley		supply	
trophy		story	
worry		boy	
chimney		enemy	
factory		monkey	
donkey		tray	

Type your ThursDay list here...

--	--	--	--	--



# T4 W2 Etymological activity

**Match the definitions with the word. Can you think of examples?**

1. photograph    2. phonetic    3. megaphone    4. phosphorous    5. cacophony

<u>Word</u>	<u>Definition</u>
	a picture made using a camera, in which an image is focused on to light-sensitive material and then made visible and permanent by chemical treatment, or stored digitally.
	the chemical element of atomic number 15, a poisonous, combustible non-metal which exists in two common allotropic forms, white phosphorus, a yellowish waxy solid which ignites spontaneously in air and glows in the dark, and red phosphorus, a less reactive form used in making matches.
	a large funnel-shaped device for amplifying and directing the voice.
	(of a system of writing) having a direct correspondence between symbols and sounds.
	a harsh discordant mixture of sounds.

# WORK ON WRITING





# WHERE'S THE WORK ON WRITING?!

This week your **Work on Writing** activity is the separate 'Yearbook' set of slides, located in the 'Daily 5' section of your Google Classroom.



This activity **MUST** be completed.

Read the instructions **CAREFULLY** for the activity.

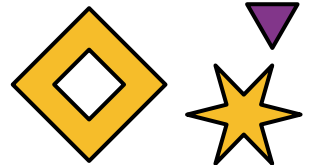


## Your Task:

Write a personalised blurb about your time at school.

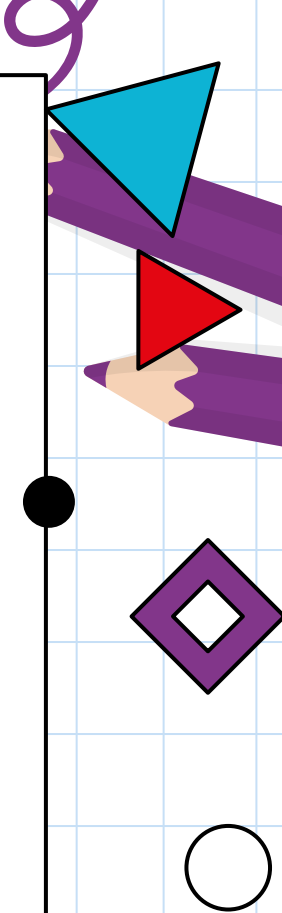
***Blurb:*** a short description

Make sure you read and edit your writing after you have finished.



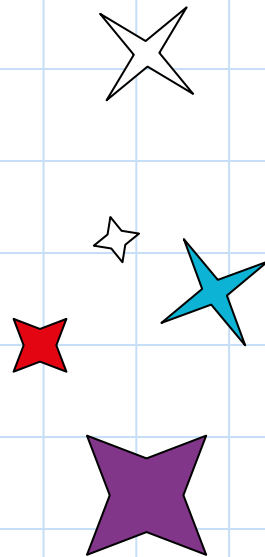
Possible things to include:

- Name
- Class
- Do you have a nickname?
- Happiest School memory
- Funniest School memory
- Achievements at School e.g. School captain, prefect, house captain
- School representation e.g. public speaking, sporting events
- Favourite teacher and why?
- Favourite subject and why?
- Your interests/hobbies
- Best excursion and why?
- What are you looking forward to about high school?
- What do you want to do when you grow up?



## Things not to include

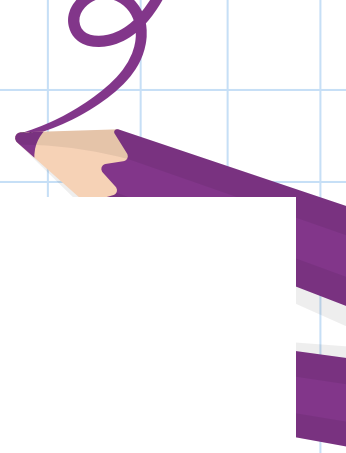
- Lists of friends names





# Draft Yearbook Blurb

Write your yearbook blurb in the text box below.



# READ TO SELF



# READING INSTRUCTIONS

## Twice a week

1. Read for at least 20 minutes - use the timer on the next slide.
2. Record your reading in your reading log, which is also on the next slide.

## Complete two reading responses.

1. Choose a reading response
2. Copy the question onto the answer slide, answer the question thoughtfully and in full sentences.

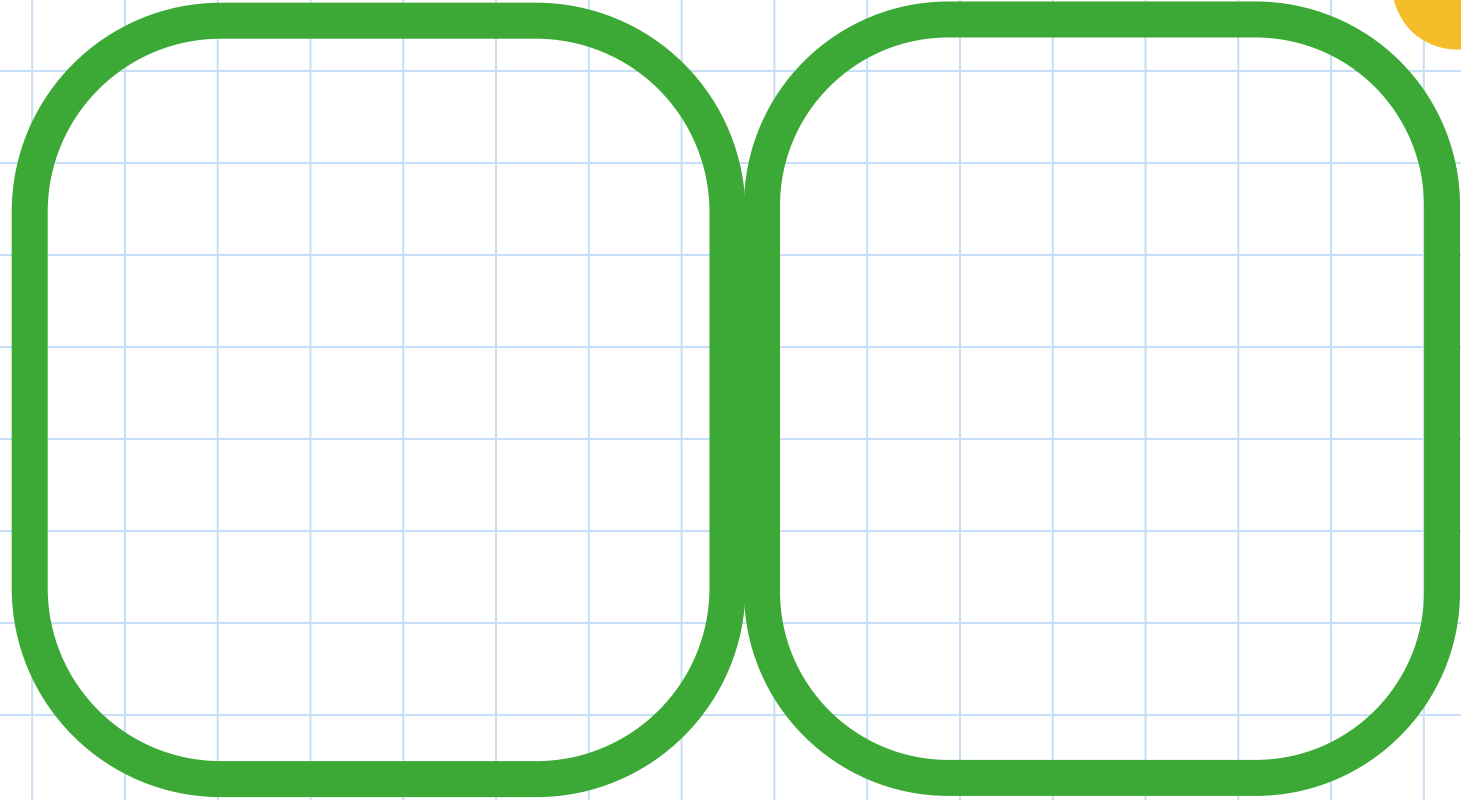
# READ TO SELF - READING LOG

DATE	TITLE	AUTHOR	PAGES READ

# READ TO SELF - READING RESPONSES

<input checked="" type="checkbox"/> Do you think the title fits the book? Why or why not? What could another title be?	<input checked="" type="checkbox"/> What was the author's purpose for writing this book? What is the genre? Explain your reasoning.	<input checked="" type="checkbox"/> Did you find this book to be interesting and hold your attention? Why or why not?
<input checked="" type="checkbox"/> Do you think this book would make a good movie? What events/characters would you add or remove? Explain.	<input checked="" type="checkbox"/> Who should or should not read this book? (Think: audience) Explain your recommendation.	<input checked="" type="checkbox"/> What is the most important word, sentence or phrase of your book or text? Explain.
<input checked="" type="checkbox"/> Why did you choose to read this story or text? Explain your reasons.	<input checked="" type="checkbox"/> What parts of the book seem most believable? What seems unbelievable? Explain.	<input checked="" type="checkbox"/> How would the text be different if it were told in a different time period?

# READING RESPONSES



**Think about your answers carefully & write in full sentences.**

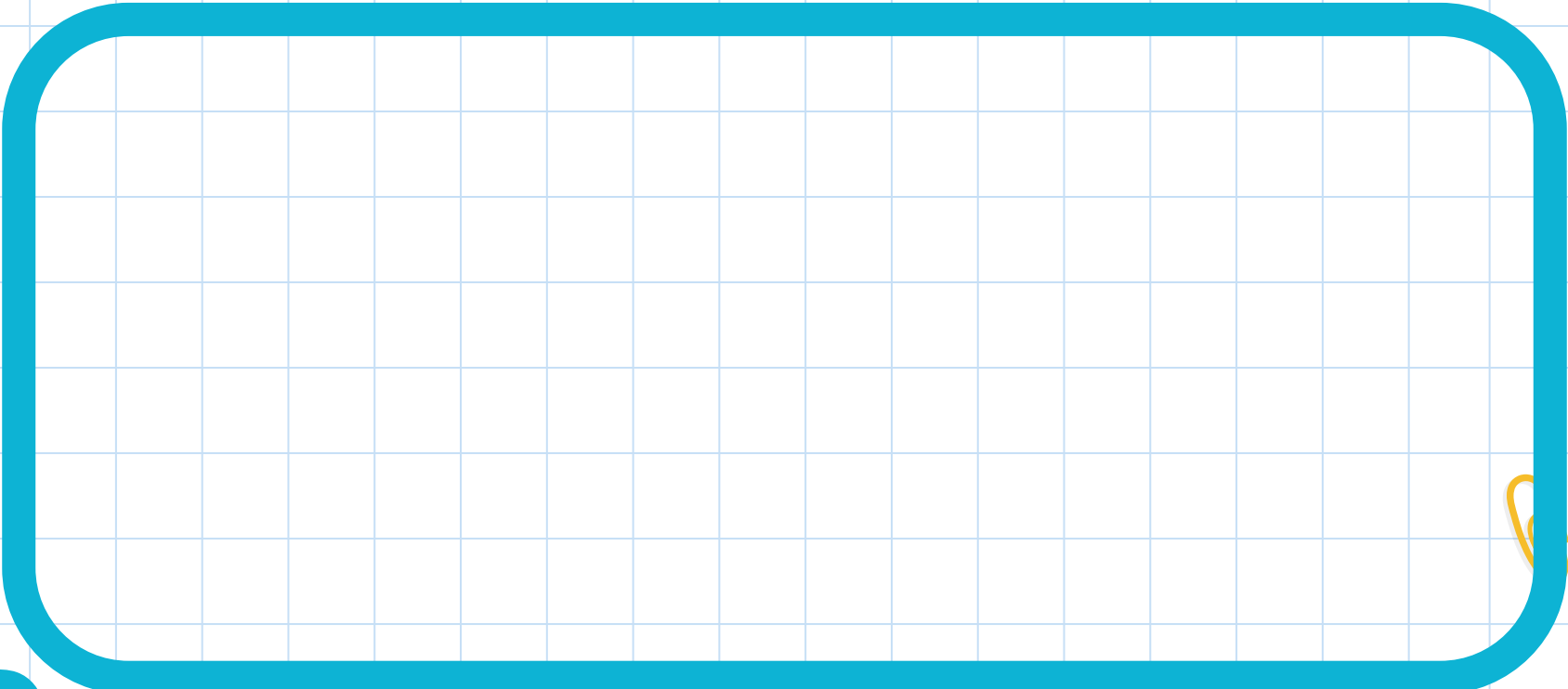
# LISTEN TO READING



# LISTEN TO READING INSTRUCTIONS

SQUIZ  
KIDS

1. **Listen** to the Squiz Kids Podcast (<https://www.squizkids.com.au/>)
2. Or listen to something on the radio or TV
3. Write a **summary** of one thing you learned



# READ TO SOMEONE



# READ TO SOMEONE INSTRUCTIONS

1. Find a someone, or a something!
2. Click on the link & use the code to log in.
3. Choose a poem to read!



[Click Here: The School Magazine](https://theschoolmagazine.com.au/activities/c49c5753-febb-4068-b21c-28cae6ff0fa7)

<https://theschoolmagazine.com.au/activities/c49c5753-febb-4068-b21c-28cae6ff0fa7>

**CLASSROOM CODE: F7N48D**

**BONUS SLIDE!**

**What do you meme?**

Write a caption for this photo.





# MATHS

Week 2

The image features a light blue grid background. A large green circle is centered, containing the word "Monday" in white. Decorative elements include a purple swirl in the top left, a yellow paperclip in the bottom left, a blue paperclip in the top right, a purple paperclip in the middle right, a purple pencil in the bottom right, and a blue pencil in the bottom right with a blue swirl. The word "Monday" is written in a white, rounded, sans-serif font.

Monday

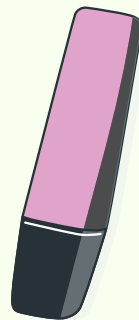


# WHOLE NUMBER

Week 2

Multiples and  
Factors

STAGE 3  
WEEK 2



# MONDAY'S LEARNING INTENTION & SUCCESS CRITERIA

	Yellow	Green	Blue	Purple
Learning Intention	Identify and describe factors and multiples of whole numbers and use them to solve problems		Determine highest common factor and lowest common multiple	
Success Criteria	I can identify multiples of whole numbers	I can identify factors and multiples of whole numbers	I can determine the lowest common multiple of any given numbers	I can determine LCM and HCF of any given numbers

# Highest Common Factor

*The highest number that divides exactly into two or more numbers.  
It is the "greatest" thing for simplifying fractions!*

Let's start with an Example ...

Greatest Common Factor of 12 and 16

- Find all the **Factors** of each number,
- Circle the **Common** factors,
- Choose the **Greatest** of those

Factors of 12: 1, 2, 3, 4, 6, 12

Factors of 16: 1, 2, 4, 8, 16

Common Factors

4 is the Greatest Common Factor

Note: Sometimes the highest common factor can be referred to as the greatest common factor.

# Find the Highest Common factor for the following numbers:

Yellow	Green	Blue	Purple
--------	-------	------	--------

21 & 28

16 & 8

36 & 12

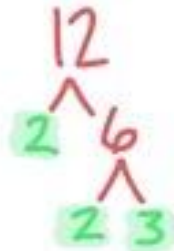
60 & 32

45 & 75

360 & 405

# Finding the GCF

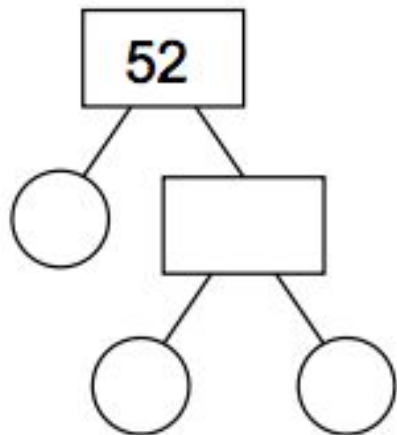
## (Prime Factorization)



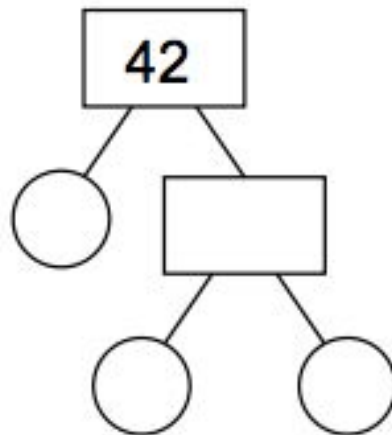
$$\text{GCF} = 2 \cdot 2 \cdot 3 = \boxed{12}$$

# Use Factor Trees to determine the HCF:

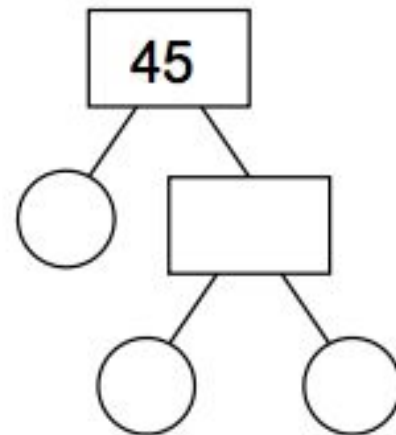
1)



2)



3)



# LEAST COMMON MULTIPLE

Yellow

Green

Blue

Purple

Let's start with an Example ...

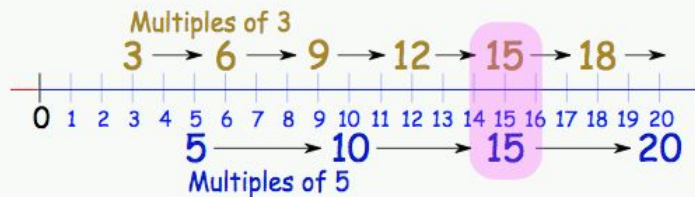
## Least Common Multiple of 3 and 5:

List the **Multiples** of each number,

The multiples of **3** are 3, 6, 9, 12, 15, 18, ... etc

The multiples of **5** are 5, 10, 15, 20, 25, ... etc

Find the first **Common** (same) value:



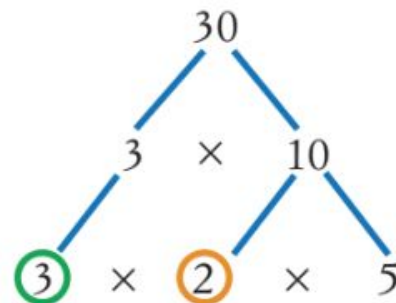
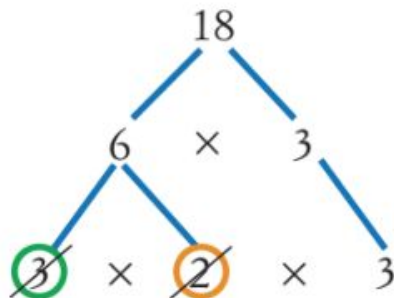
The **Least Common Multiple** of 3 and 5 is **15**

(15 is a multiple of both 3 and 5, and is the smallest number like that.)

Use factor trees to find the LCM of 18 and 30.

## Solution

- Draw factor trees for 18 and 30.



- Circle common prime factors: 3 and 2.
- Cross out one of the 3s and one of the 2s.
- Multiply the remaining factors to calculate the LCM.
- LCM of 18 and 30 =  $3 \times 3 \times 2 \times 5$   
 $= 90$

Find the lowest common multiple of each set of numbers.

**a** 3, 5

**b** 6, 7

**c** 4, 6

**d** 15, 10

**e** 5, 8

**f** 4, 10

**g** 10, 5

**h** 2, 8

**i** 9, 6

**j** 3, 7

**i** 3, 4, 5

**j** 4, 12, 10



Tuesday

# TUESDAY'S LEARNING INTENTION & SUCCESS CRITERIA



	Yellow	Green	Blue	Purple
Learning Intention	model square numbers and record each number group.		model square and triangular numbers and record each number group in numerical and diagrammatic form	
Success Criteria	I can model a simple number pattern	I can model square numbers using numbers and picture diagrams.	I can model square and triangular numbers using numbers and diagrams	I can model and explain square and triangular numbers using numbers and diagrams

# Revising Square numbers:

## What is a square number?

A square number is a number that has been multiplied by itself. For example, 36 is a square number because it is made up of six lots of 6:  $6 \times 6 = 36$ . To write the mathematical formula for this, you would add a small 2 to the top right of the number, for example:  $6^2$  (six squared).

×	1	2	3	4	5	6	7	8	9	10	11	12
1	1	2	3	4	5	6	7	8	9	10	11	12
2	2	4	6	8	10	12	14	16	18	20	22	24
3	3	6	9	12	15	18	21	24	27	30	33	36
4	4	8	12	16	20	24	28	32	36	40	44	48
5	5	10	15	20	25	30	35	40	45	50	55	60
6	6	12	18	24	30	36	42	48	54	60	66	72
7	7	14	21	28	35	42	49	56	63	70	77	84
8	8	16	24	32	40	48	56	64	72	80	88	96
9	9	18	27	36	45	54	63	72	81	90	99	108
10	10	20	30	40	50	60	70	80	90	100	110	120
11	11	22	33	44	55	66	77	88	99	110	121	132
12	12	24	36	48	60	72	84	96	108	120	132	144

Square numbers are numbers that can be arranged in the shape of a square array. They are equal to a number multiplied by itself.

**10** Complete the labels for the squared numbers.

$$1^2$$

$$2^2$$

$$3^2$$

$$4^2$$



**a**

$$1 \times 1 = \boxed{\phantom{00}}$$

**b**

$$2 \times 2 = \boxed{\phantom{00}}$$

**c**

$$3 \times 3 = \boxed{\phantom{00}}$$

**d**

$$4 \times 4 = \boxed{\phantom{00}}$$

Circle the square numbers or type them here...

1                      49                      4                      17                      36                      89                      144

75                      101                      81                      123                      9

100                      25                      66                      16                      121                      12                      64

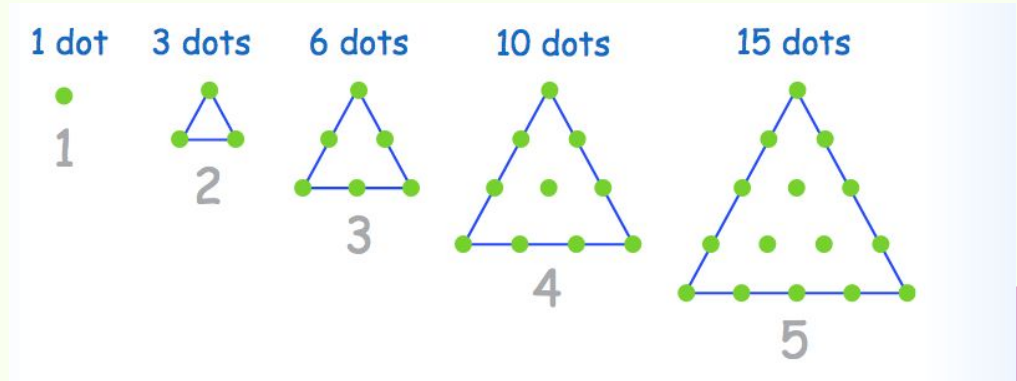
# Revising Triangular numbers

This is the Triangular Number Sequence:

It is simply the number of dots in each **triangular pattern**:

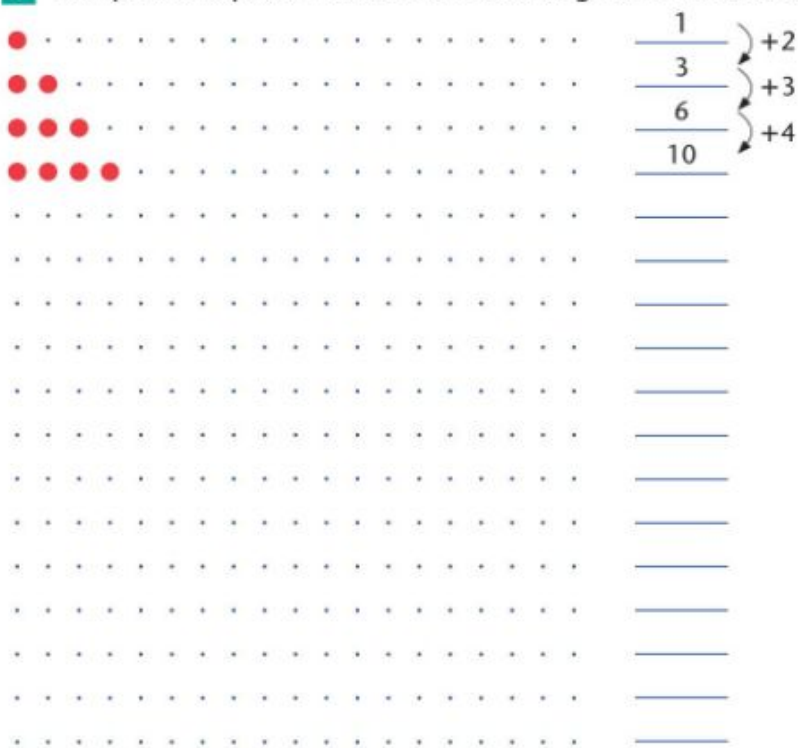
By adding another row of dots and counting all the dots we can find the next number of the sequence.

- The first triangle has just one dot.
- The second triangle has another row with 2 extra dots, making  $1 + 2 = 3$
- The third triangle has another row with 3 extra dots, making  $1 + 2 + 3 = 6$
- The fourth has  $1 + 2 + 3 + 4 = 10$



Answer the following questions:

**9** Complete the pattern for the first 17 triangular numbers. It has been started for you.



Ten is a triangular number.



**9** Look for a pattern in the triangular numbers above, then write what the:

**a** 18th triangular number would be \_\_\_\_\_

**c** 20th triangular number would be \_\_\_\_\_

**b** 19th triangular number would be \_\_\_\_\_

**d** 21st triangular number would be \_\_\_\_\_



ThurSday

# Escape Room

You asked and we listened...

Today your task is to complete the escape room revising factors and multiples. Can you crack it in less than 50 minutes??

<https://forms.gle/jyxJA41SSb4cVgUZ7>

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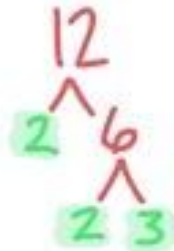
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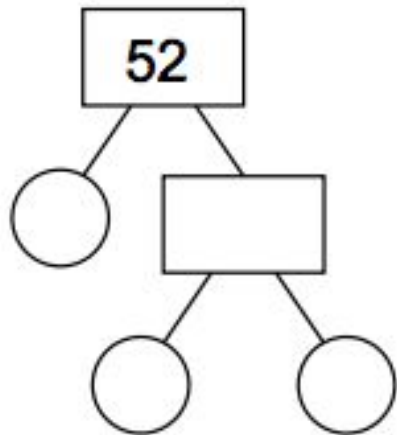
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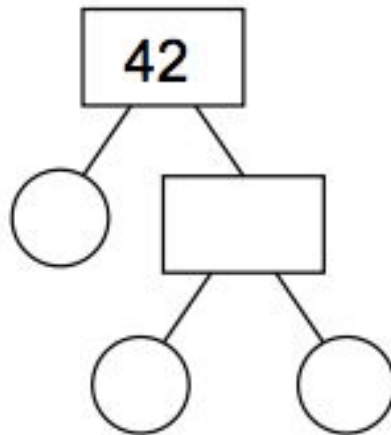
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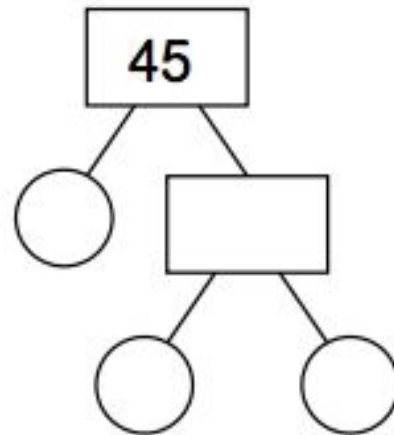
1)



2)



3)



# LEAST COMMON MULTIPLE

Yellow

Green

Blue

Purple

Let's start with an Example ...

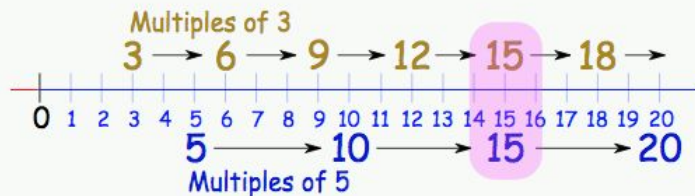
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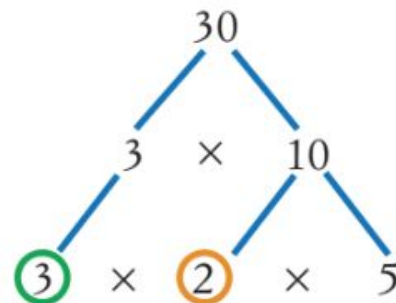
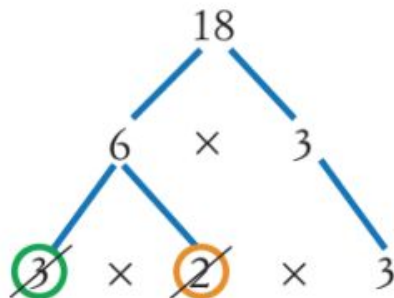
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**i** 3, 4, 5

**j** 4, 12, 10



Friday

# Lesson!

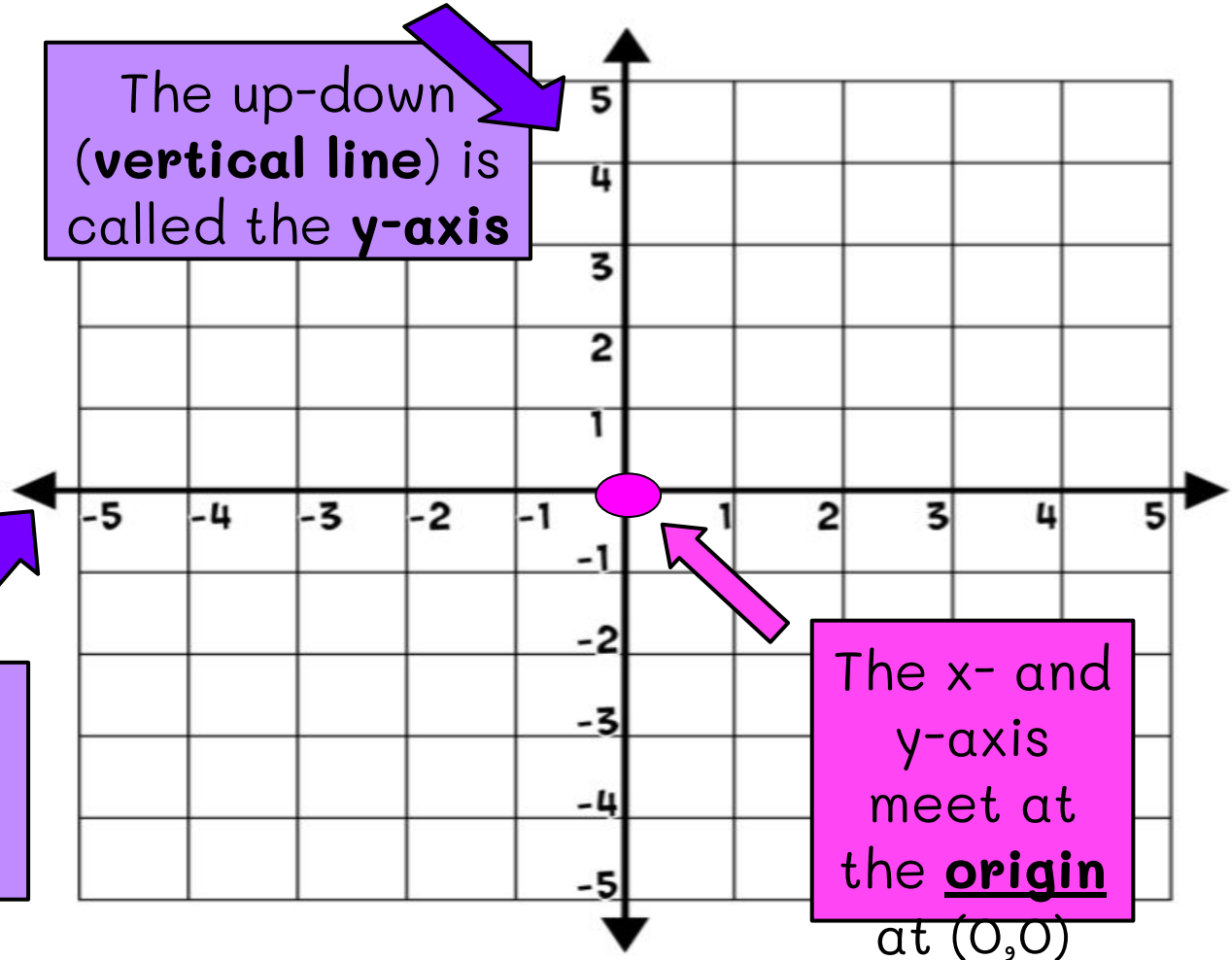
**Plotting Points on a  
Cartesian Coordinate Plane**

# Features of the Cartesian Coordinate Plane

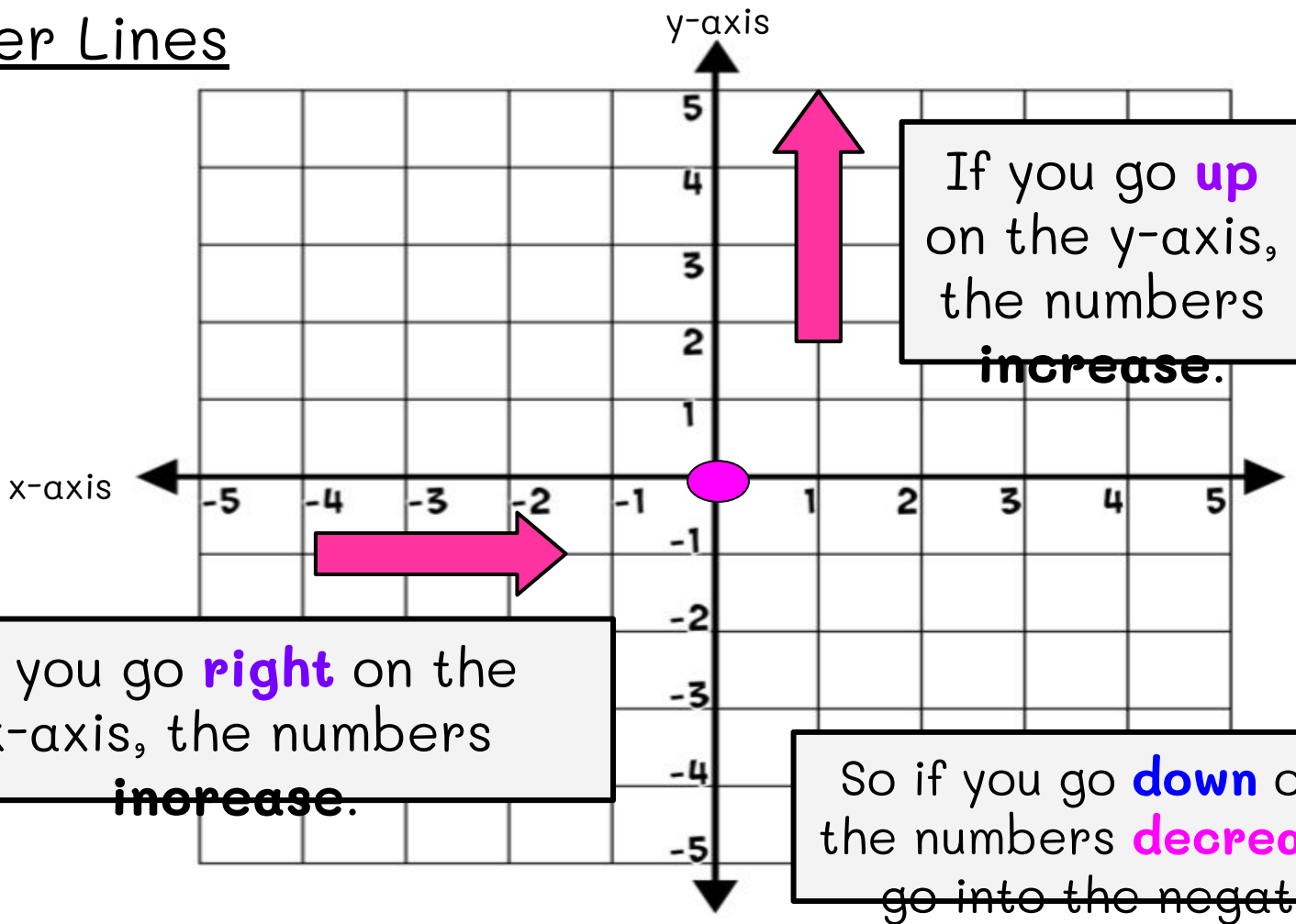
What do we need  
to know?

The left-right  
(**horizontal line**)  
is called the  
**x-axis**

The up-down  
(**vertical line**) is  
called the **y-axis**



# Number Lines

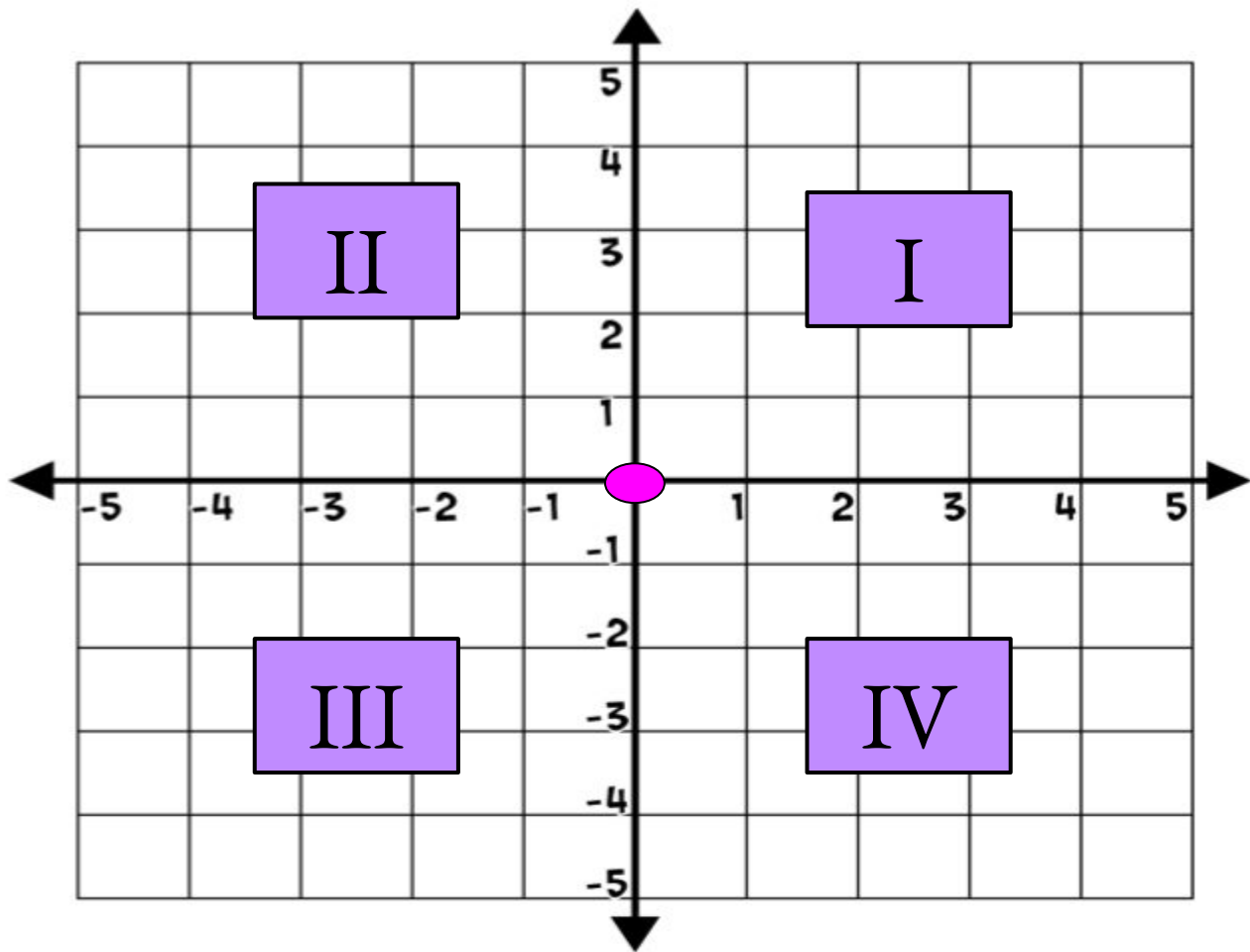


## Quadrants

-A coordinate plane has 4 quadrants

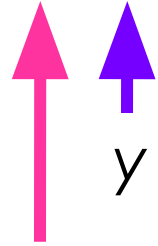
-Quadrants are labelled using Roman Numerals

-Start in the top right and move counterclockwise



# Plotting Points in the Cartesian Plane

$(4, 5)$  is an example of an **ordered pair**.



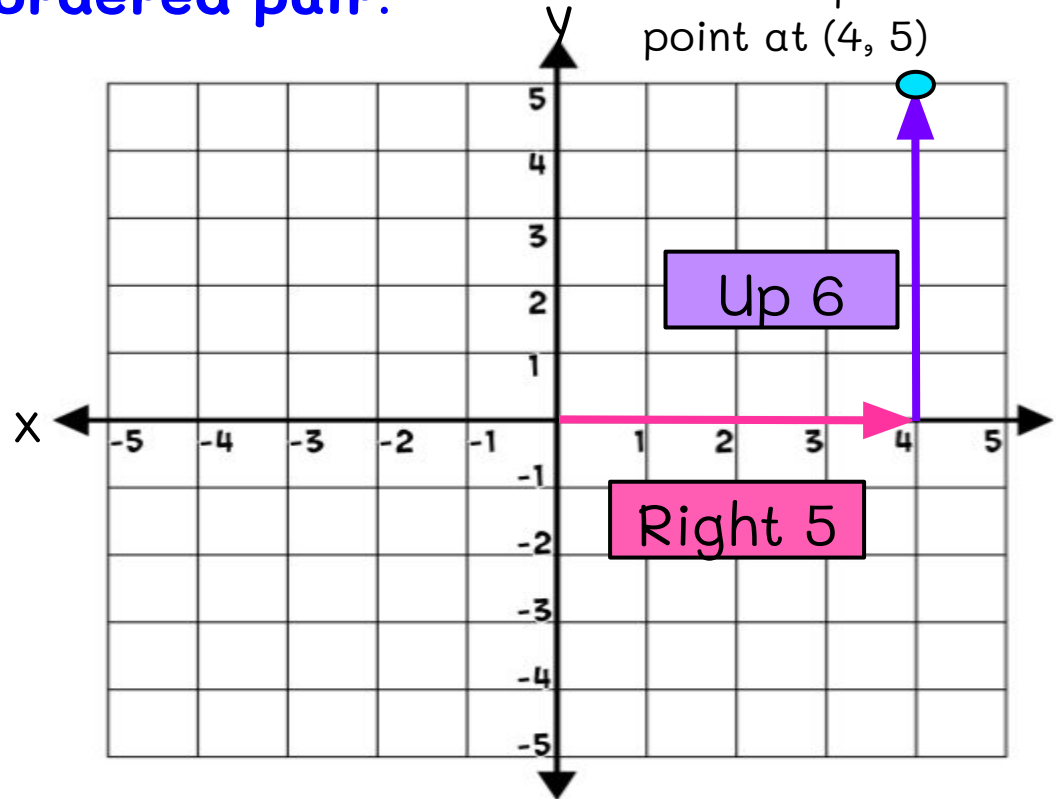
x coordinate

y coordinate

**Coordinates are always written as:  $(x, y)$**

**x** always comes first, which means we are looking at the **x-axis first!**

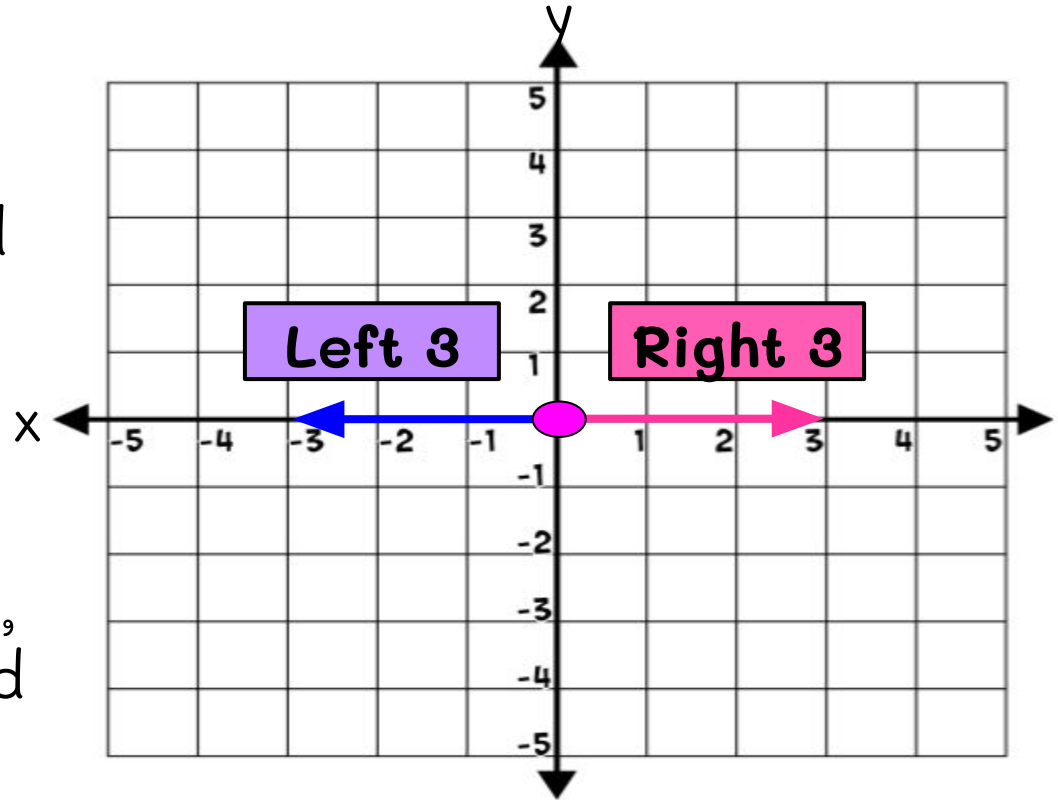
We have plotted a point at  $(4, 5)$



# Plotting Points in the Cartesian Plane

When **x** is a **positive number**, like this  $\rightarrow (3, 2)$ , we start at the origin and go **right**.

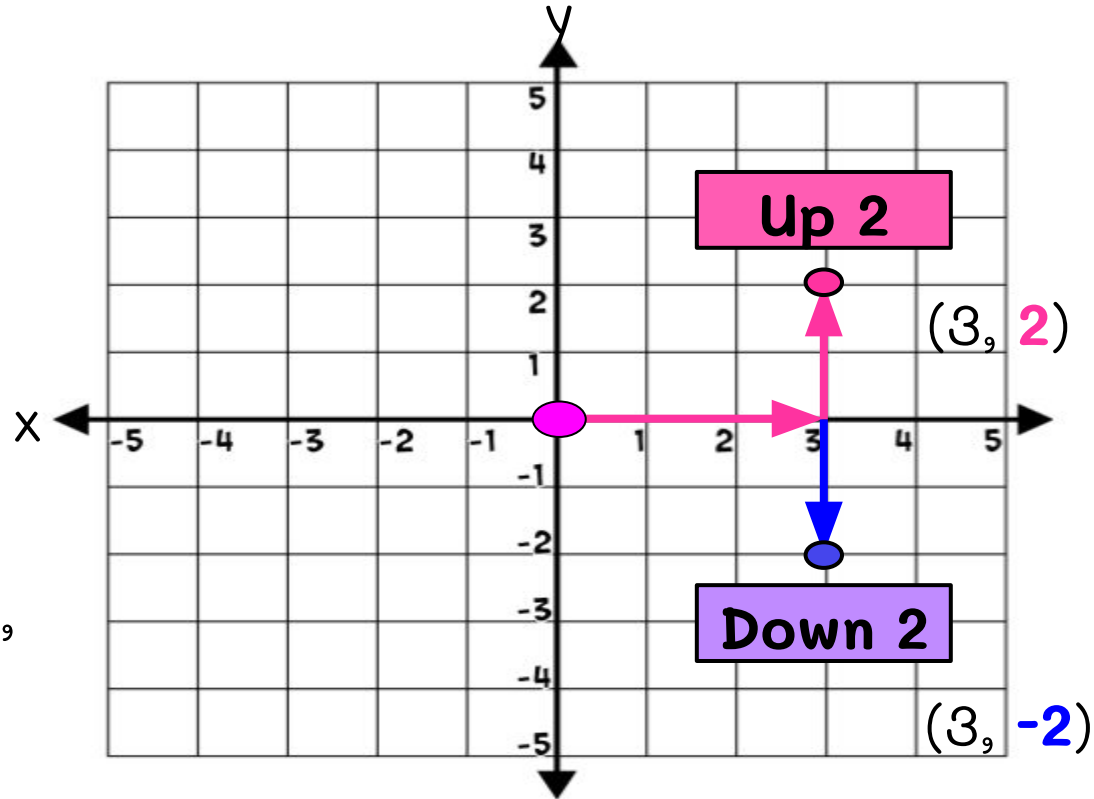
When **x** is a **negative number**, like this  $\rightarrow (-3, 2)$ , we start at the origin and go **left**.



# Plotting Points in the Cartesian Plane

When **y** is a **positive number**, like this  $\rightarrow (3, \textcolor{violet}{2})$ , we go **up**.

When **y** is a **negative number**, like this  $\rightarrow (3, \textcolor{blue}{-2})$ , we go **down**.



# It's Like Entering a Hotel....

$(x, y)$

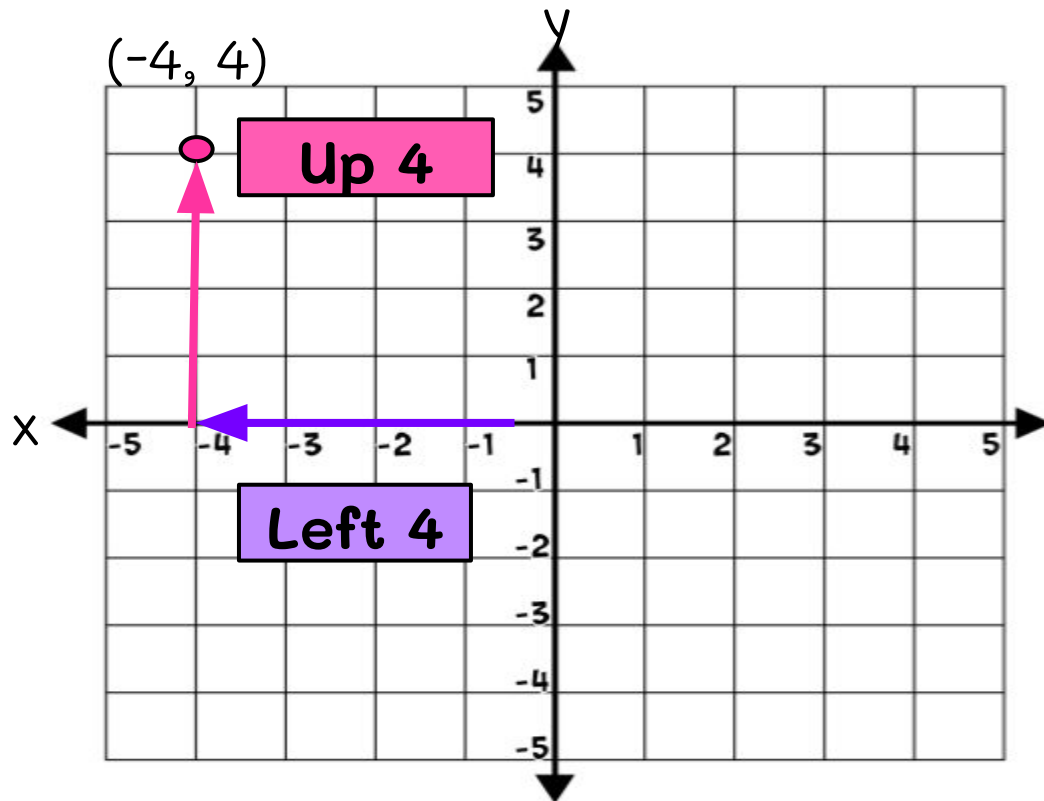
Go in the  
door and  
turn left or  
right!

Use the  
elevator!

$(-4, 4)$

up 4

left 4



Let's try plotting the following points.

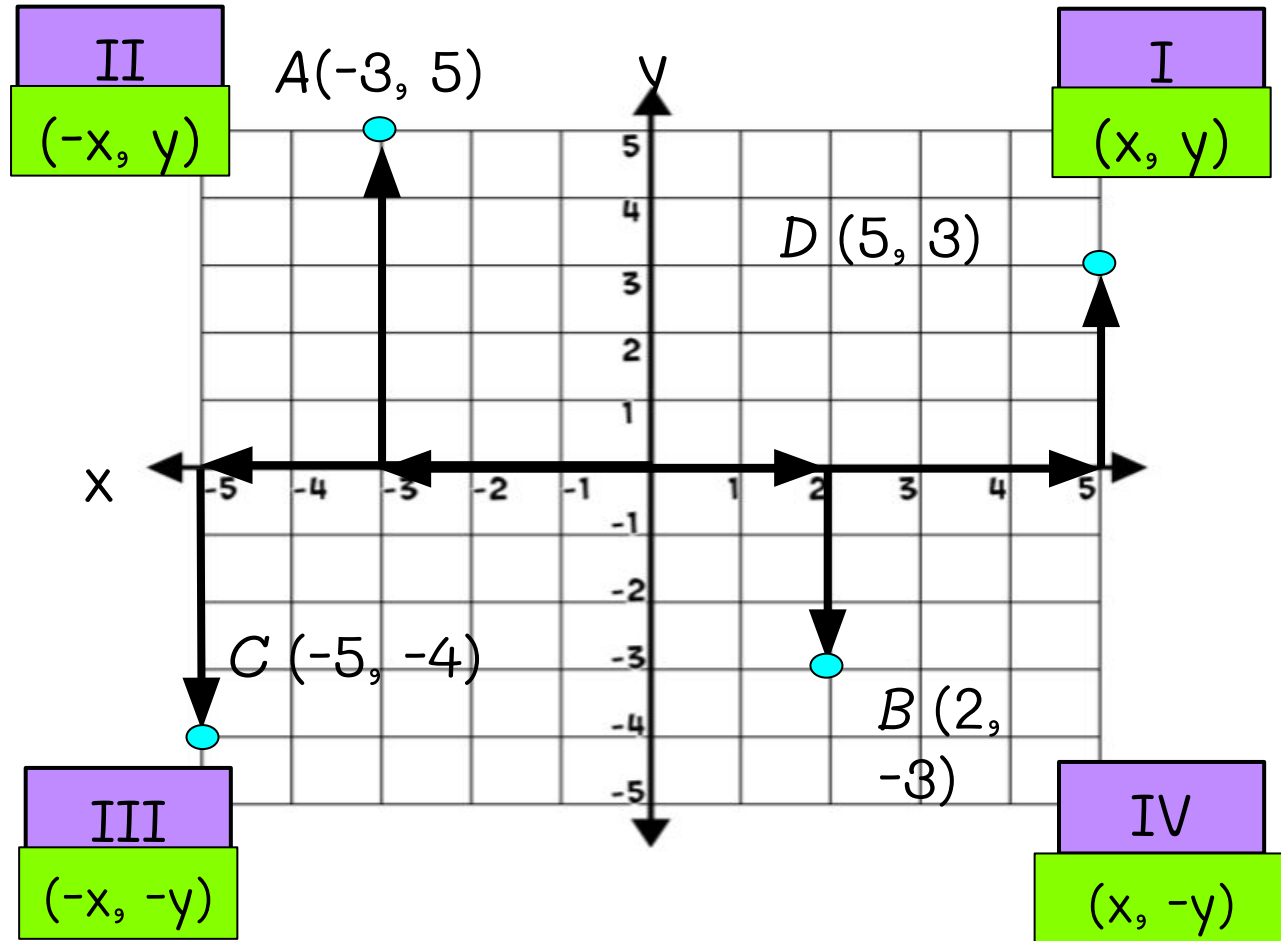
$A (-3, 5)$

$B (2, -3)$

$C (-5, -4)$

$D (5, 3)$

Do you notice  
any patterns  
with the  
coordinates?



Plot the following points.

$E (4, 0)$

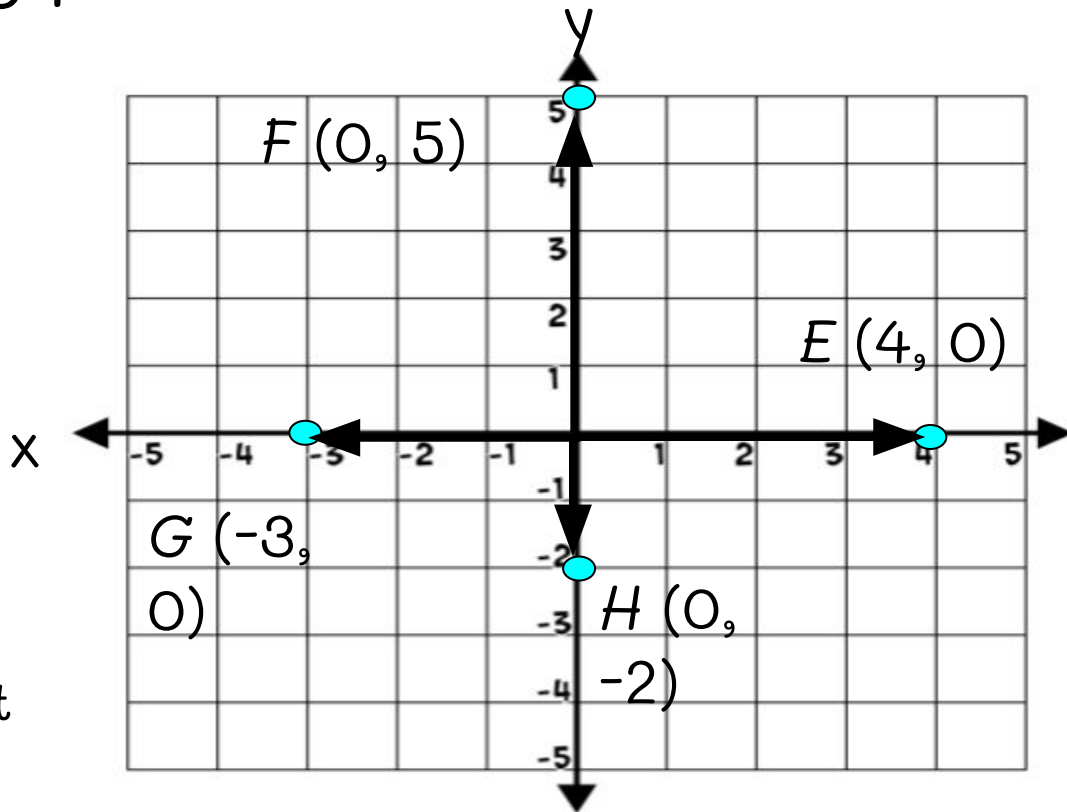
$F (0, 5)$

$G (-3, 0)$

$H (0, -2)$

What do you notice about  
their coordinates?

**They all lie along an  
axis!**



# What are the coordinates of these points?

Remember: the first number is on the x-axis.

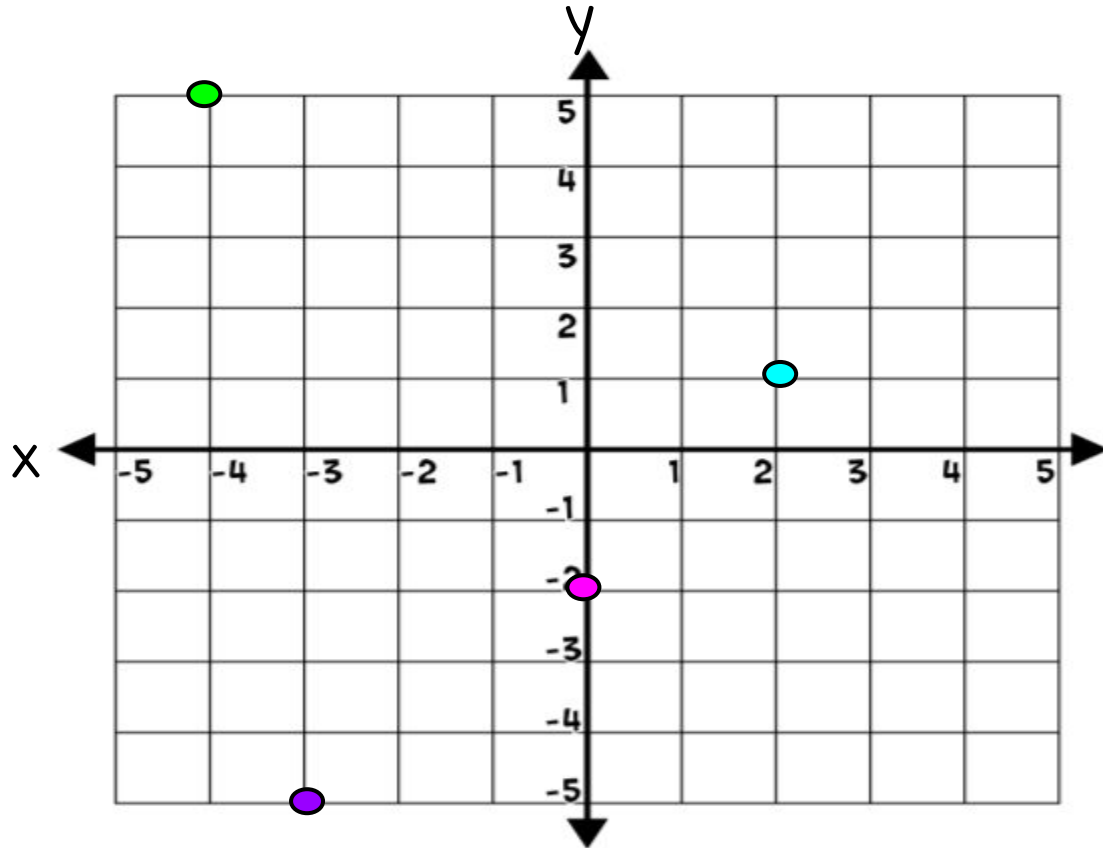
$(x, y)$

●  $(2, 1)$

●  $(-3, -5)$

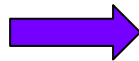
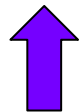
●  $(-4, 5)$

●  $(0, -2)$



# Remember the Directions!

Start at the origin (0,0)



**Positive coordinates** indicate movement **UP** or **RIGHT**  
( $x$ ,  $y$ )

**Negative coordinates** indicate movement **DOWN** or **LEFT**  
( $-x$ ,  $-y$ )



Label the coordinate plane by dragging and dropping the labels.

Quadrant 3

y-axis

Quadrant 1

Quadrant 4

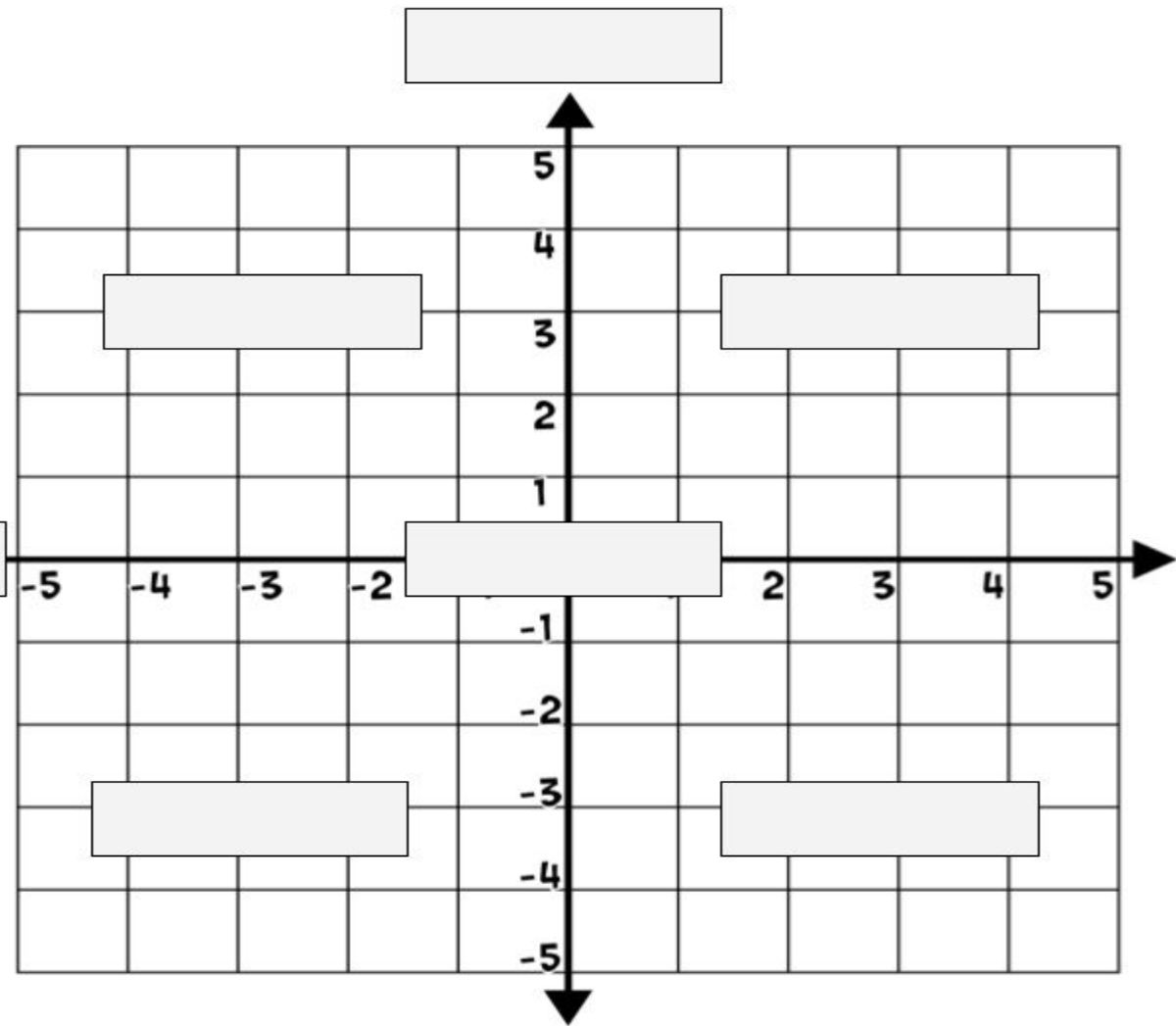
x-axis

origin

Quadrant 2



Click and drag!



# True or False?

Click and drag to demonstrate the correct answer.

True

False

1. The x-axis is the horizontal line.

2. The y-axis is the vertical line.

3. Another term for  $(0,0)$  is "the start."

4. A positive x-coordinate goes left of the origin.

5. When you go right on the x-axis, the numbers decrease.

6. Ordered pairs always have one negative number.

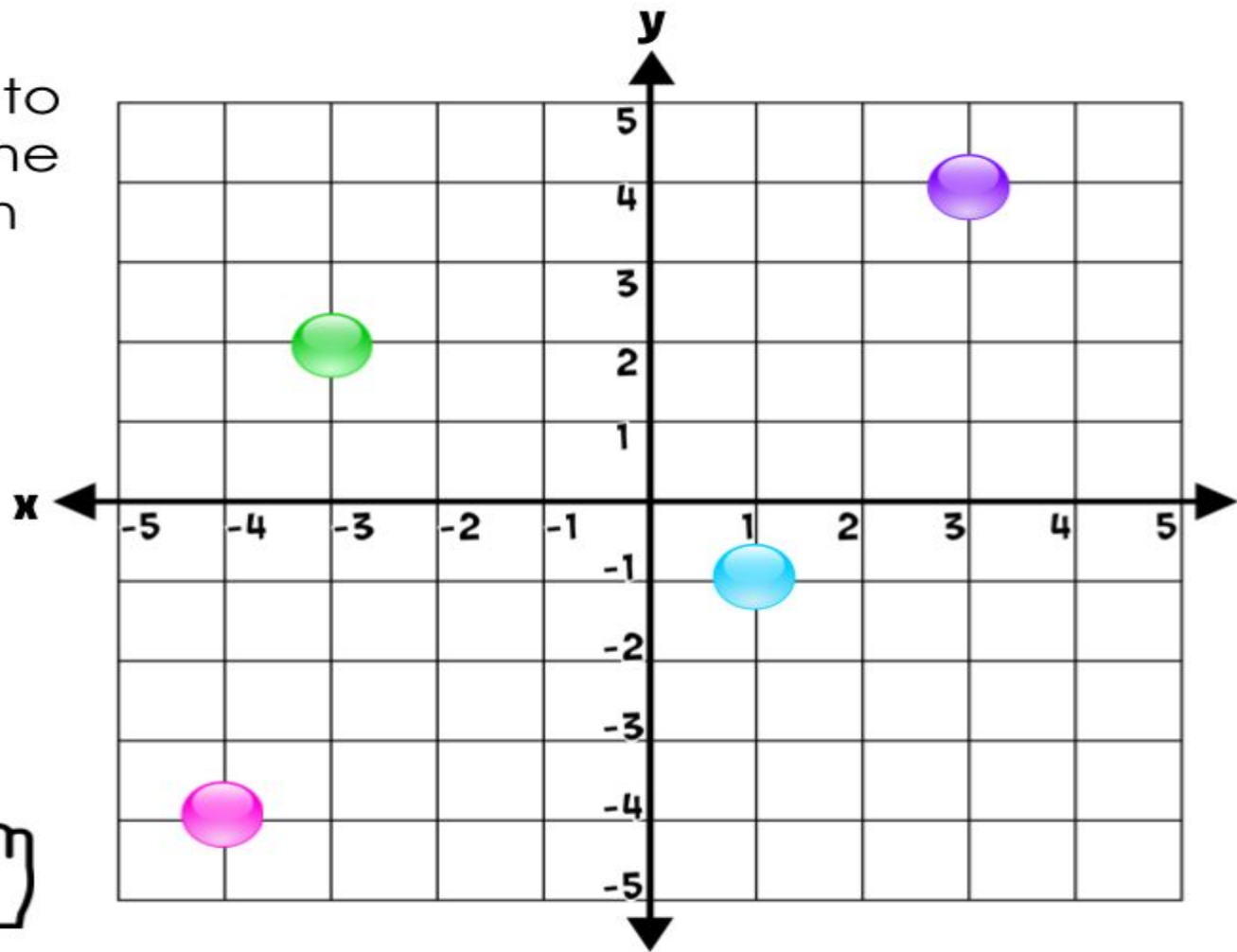
7. Always plot the y-coordinate first.

8. When one of the coordinates is zero, the point will be on an axis.


Write the coordinate pairs to indicate where the points have been plotted.





Double-click to type




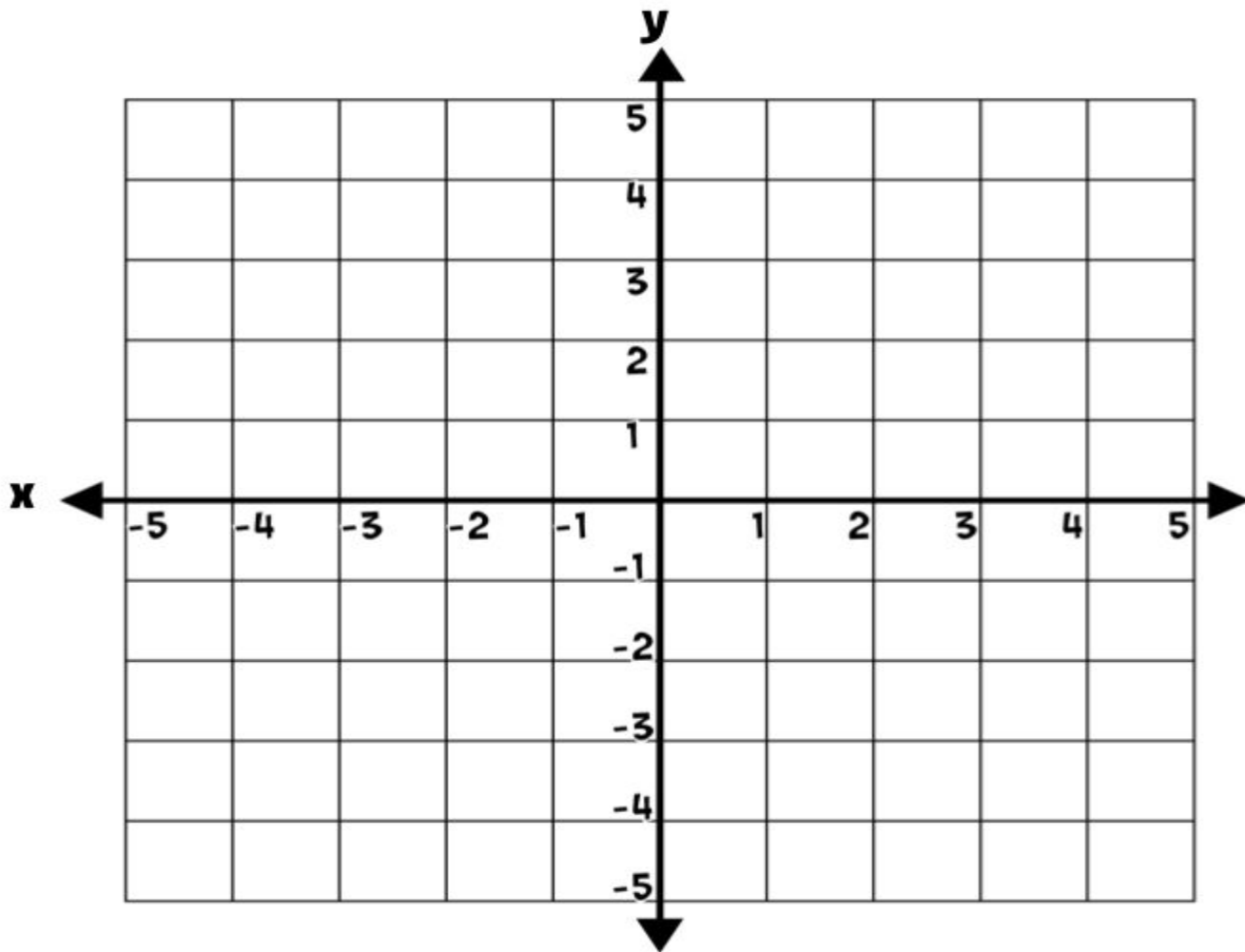
Plot these  
coordinates by  
**dragging and  
dropping** each  
*circle* where it  
belongs.

$(4, 3)$  

$(-2, 5)$  

$(-1, -1)$  

$(3, -5)$  



Drag and drop each image to the correct spot!



**$(-3, 2)$**



**$(-4, 4)$**



**$(4, 5)$**



**$(-4, -5)$**



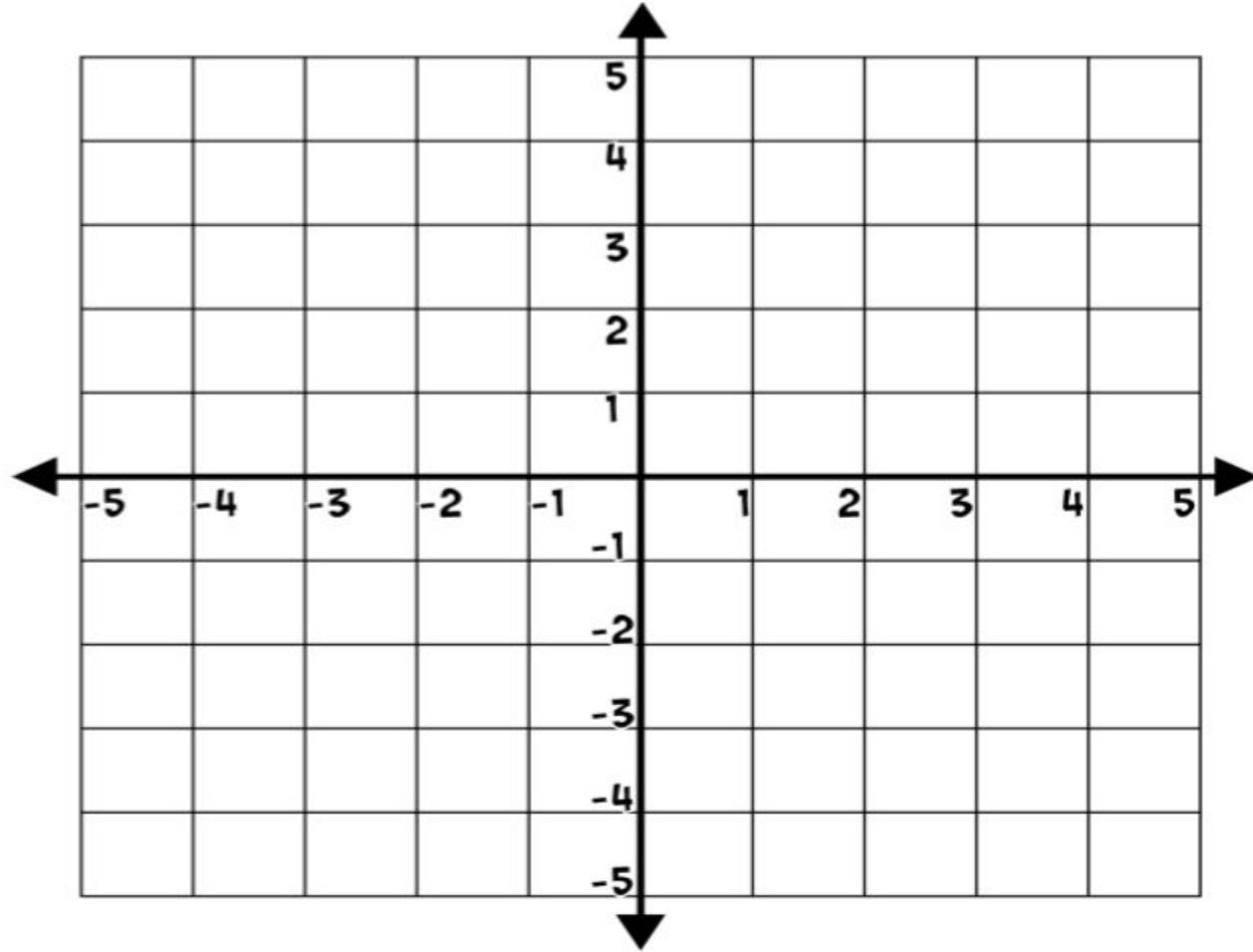
**$(2, -5)$**



**$(1, 1)$**



**$(4, -3)$**



Drag and Drop each image to the correct spot!



**$(-2, 3)$**



**$(0, 0)$**



**$(-5, -5)$**



**$(0, -3)$**



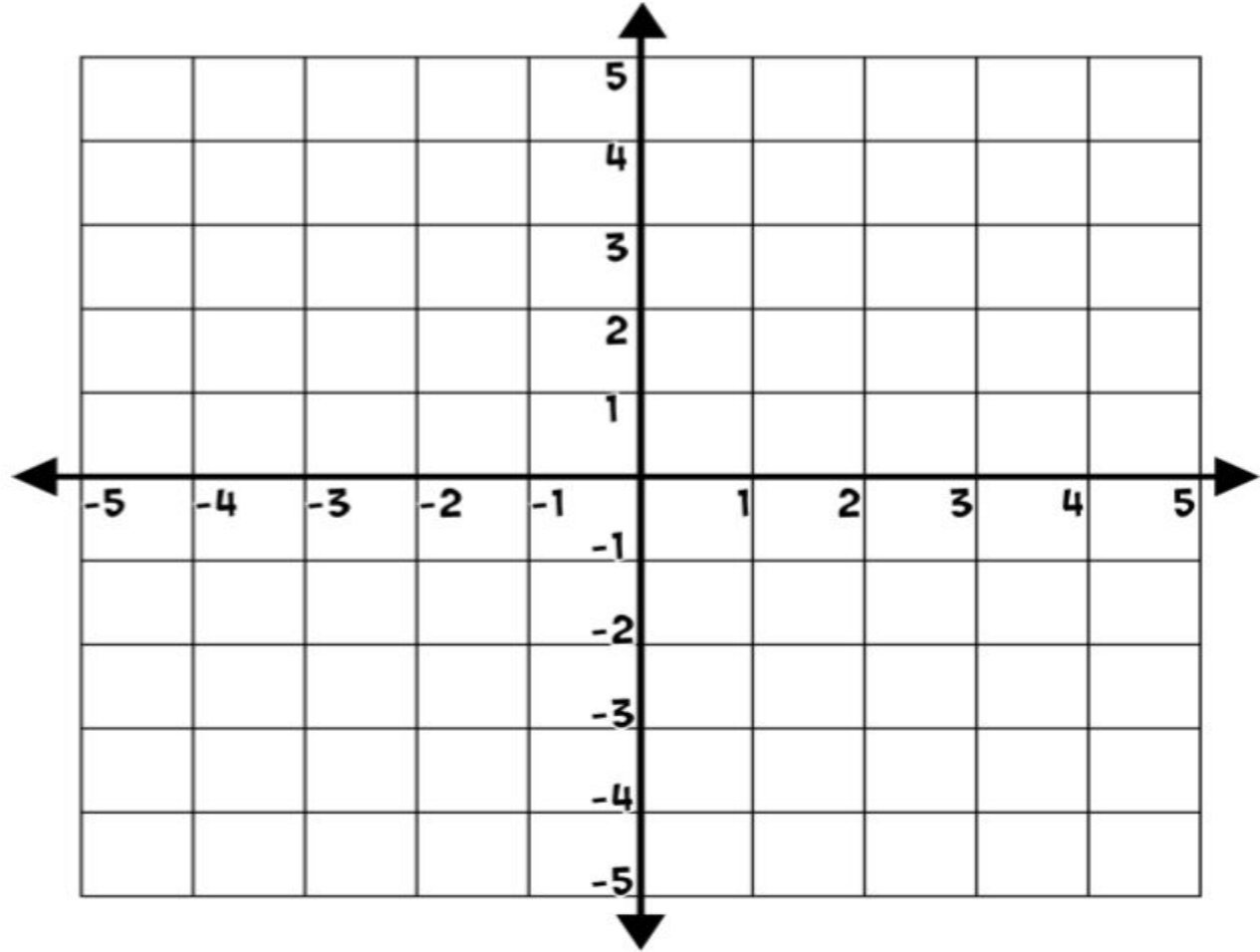
**$(4, 0)$**



**$(2, 4)$**



**$(4, -3)$**



Plot each point and  
tell which quadrant  
it is in.



Type the  
quadrant!  
1, 2, 3 or 4!

$(5, -4)$



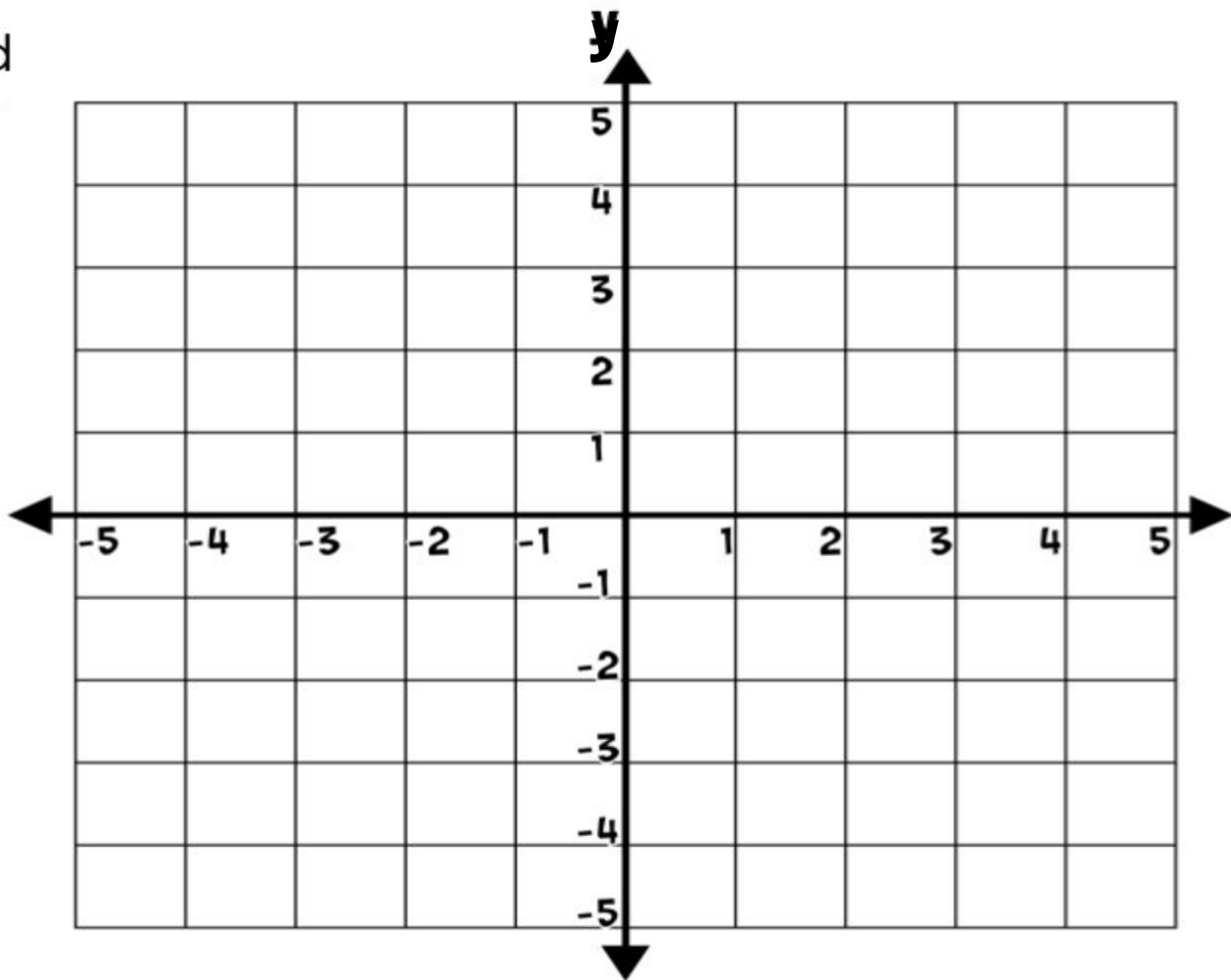
$(1, -5)$



$(-5, 2)$



$(-2, -3)$



Answer the riddle by finding the letter to go with each ordered pair.

1. How do bees get to school in the morning?

(8, -8) (-6, 5)

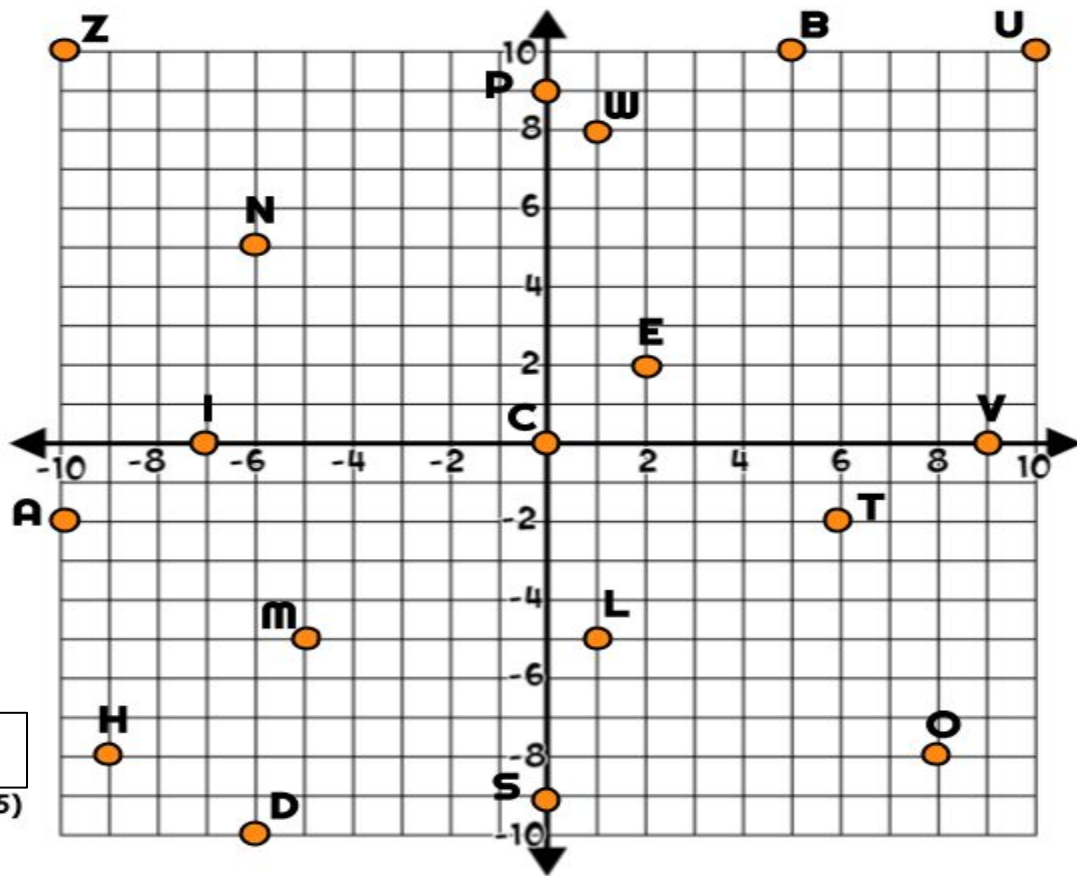


Type the letter that you find at each set of coordinates!

(6, -2) (-9, -8) (2, 2)

(0, -9) (0, 0) (-9, -8) (8, -8) (8, -8) (1, -5)

(5, 10) (10, 10) (-10, 10) (-10, 10)





# Integrated unit

Week 2



# My Wellbeing Journal

Week 2



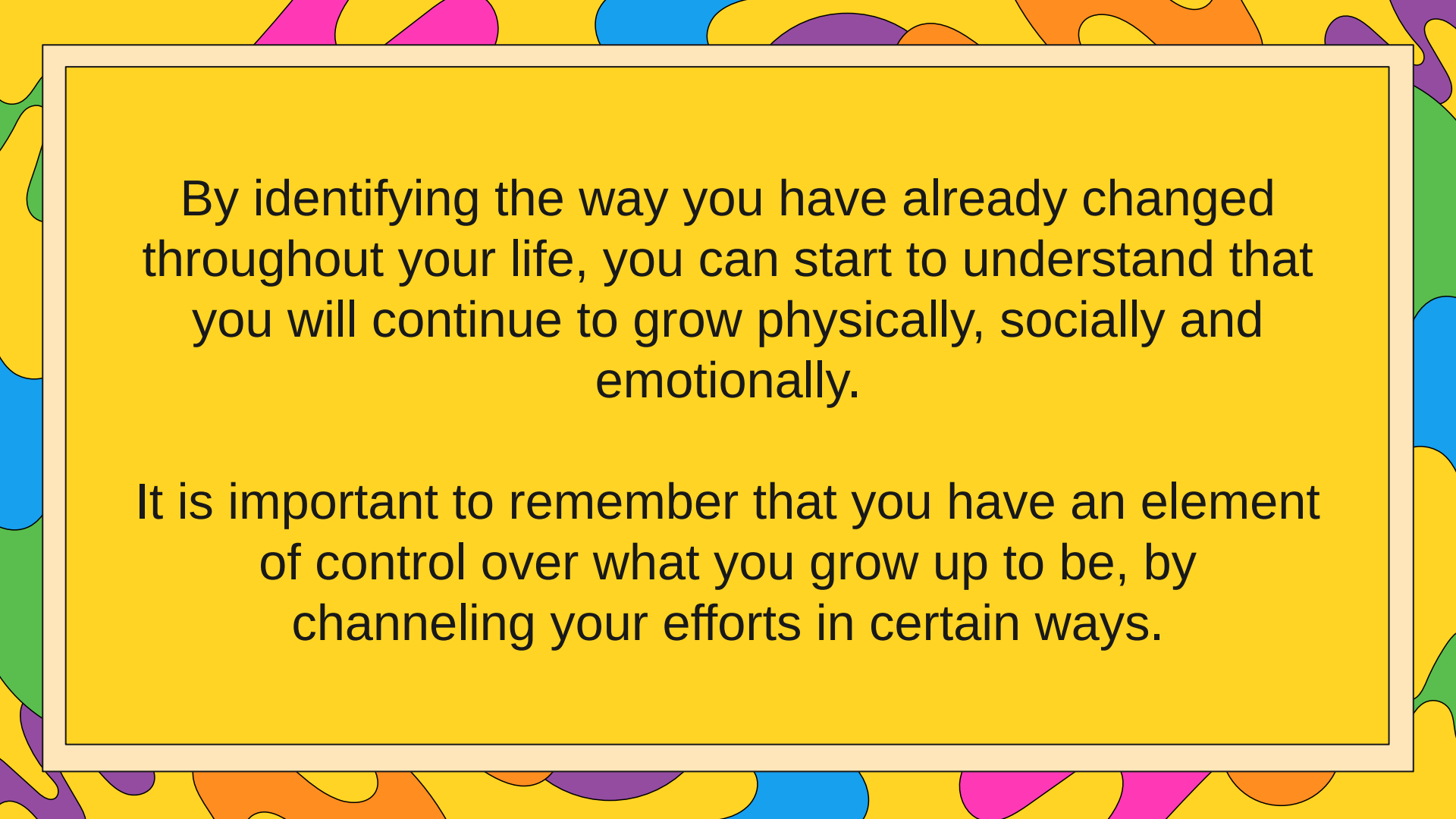
**One Year Ago**

# **Learning Intention**

Students will learn about how they are changing because it helps them to understand why they feel the way they do, and the impact they have on the world around them.

# **Success Criteria**

Students are able to discuss the ways they have changed and how this will affect the impact they have on the world.



By identifying the way you have already changed throughout your life, you can start to understand that you will continue to grow physically, socially and emotionally.

It is important to remember that you have an element of control over what you grow up to be, by channeling your efforts in certain ways.

# Think about how you have changed.

**Brainstorm what you were like socially when you were:**



**One Year Old**

- Type here



**In Kindy**

- Type here



**Now**

- Type here

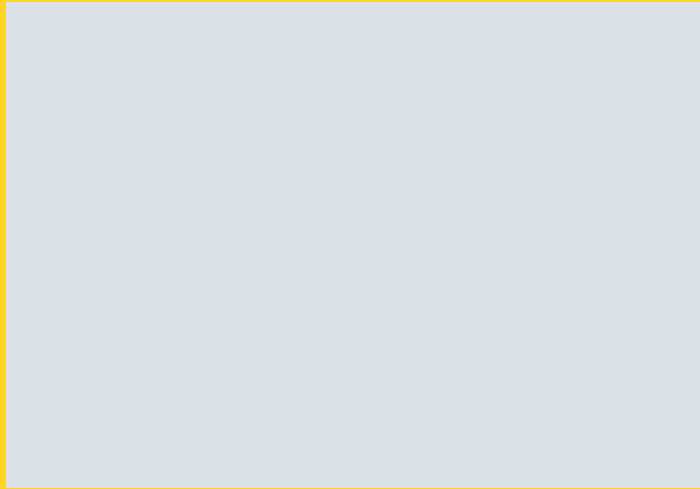
**Think about who, where, how and why you communicated with people.**

# Q&A Time

Type a short answer to the following questions...

**How has your mood changed in the last:**

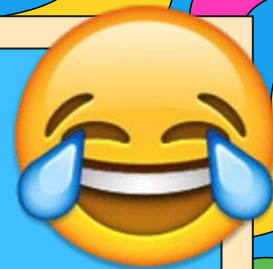
**Week**



**Year**

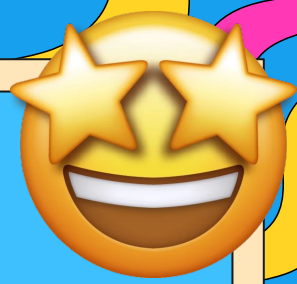


**What is something that made you laugh, or amused you when you were younger?**

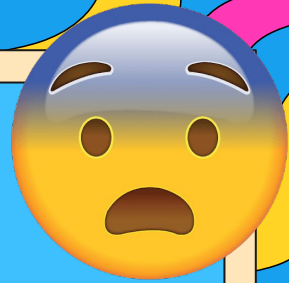


**How has that changed now?**

**What is something that made you feel excited when you were younger?**

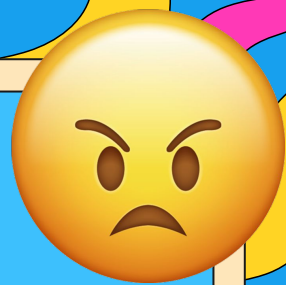


**How has that changed now?**



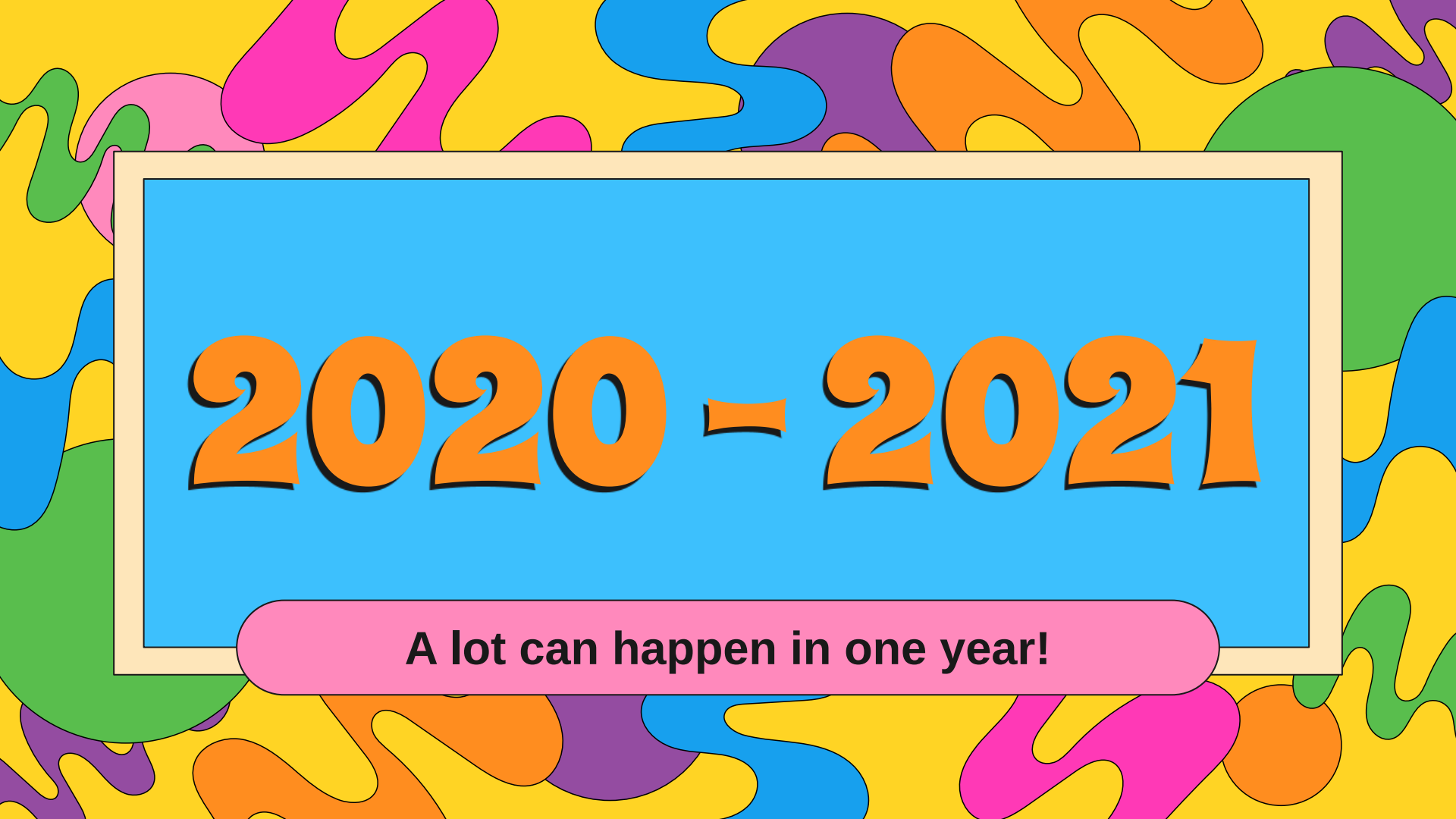
**What is something that made you feel nervous when you were younger?**

**How has that changed now?**



**What is something that made you feel angry when you were younger?**

**How has that changed now?**



# 2020 - 2021

**A lot can happen in one year!**



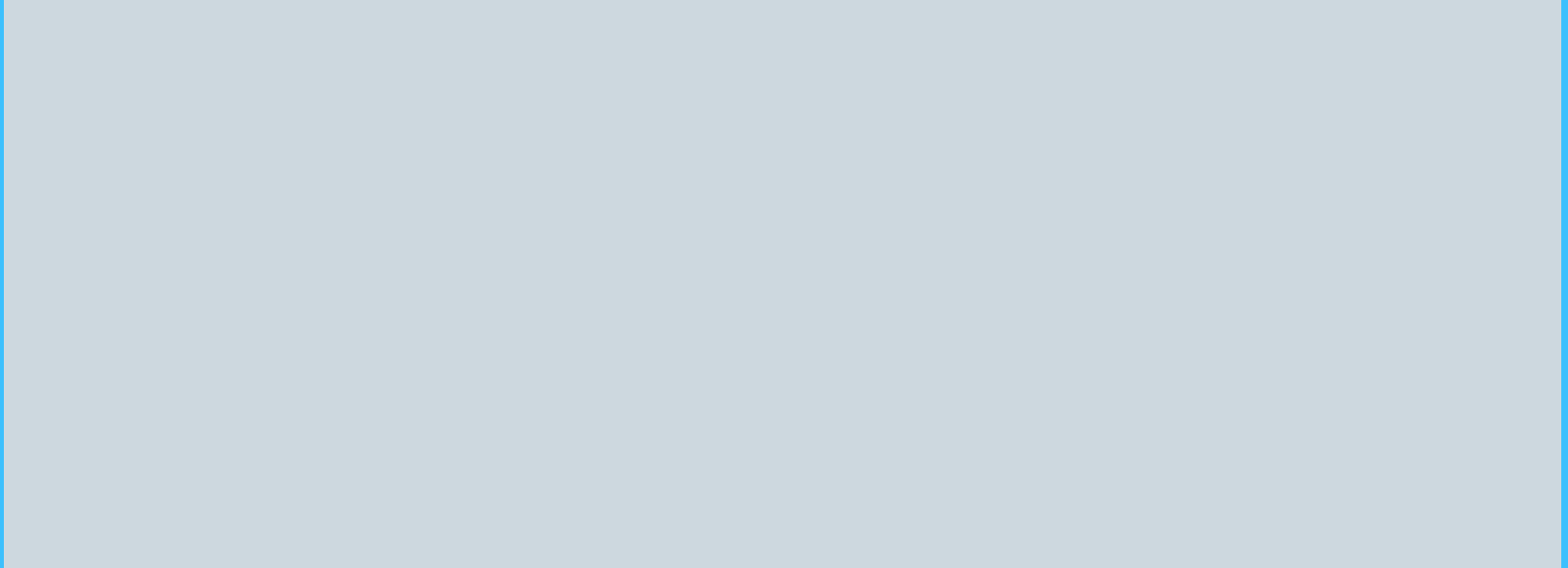
**No matter how hard you try you cannot avoid change. Change is sometimes challenging but it can make your life better once you understand it.**

**Think about yourself this time last year. What has changed? Maybe you have a new favourite game or tv show, new friends or a different teacher. Maybe you went through an exciting or challenging time.**



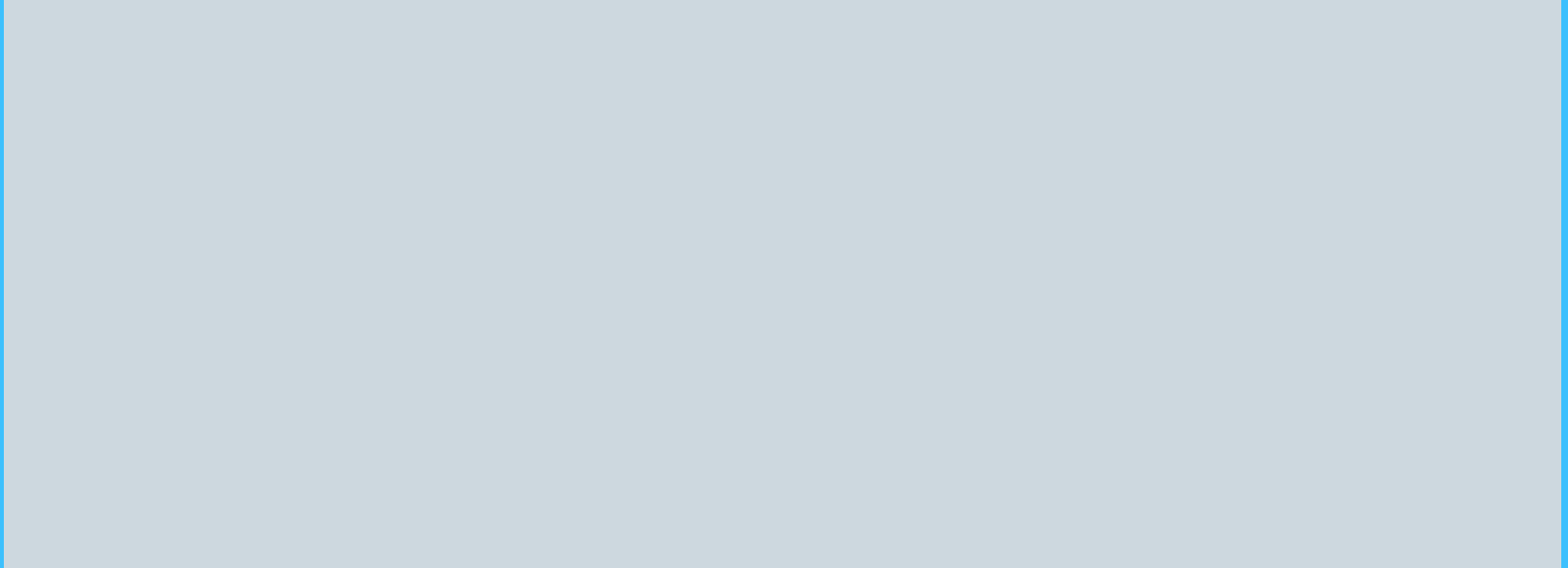
**Think about how you  
have changed over  
the last year...**

# **Emotional Changes**



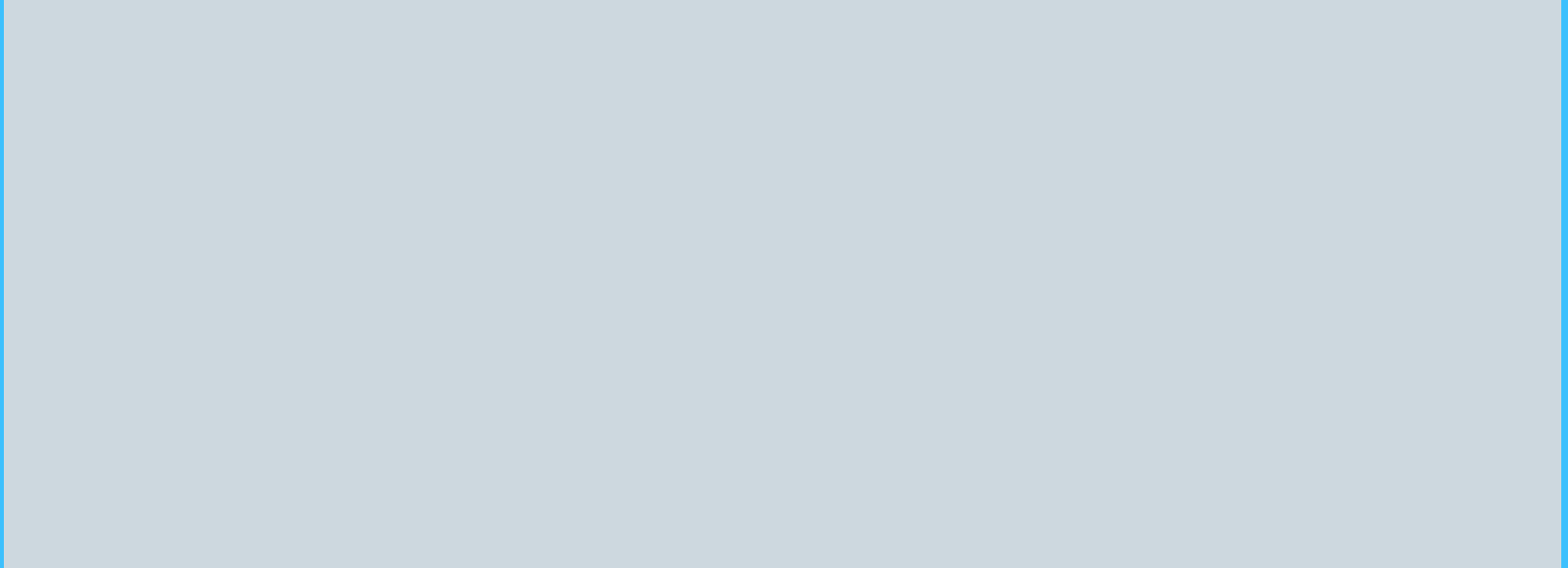
**Think: Moods, feelings, self-awareness, self-management.**

# **Physical Changes**



**Think: How you look, height**

# **Social Changes**



**Think: Values, interests, friendships**



# My Wellbeing Journal

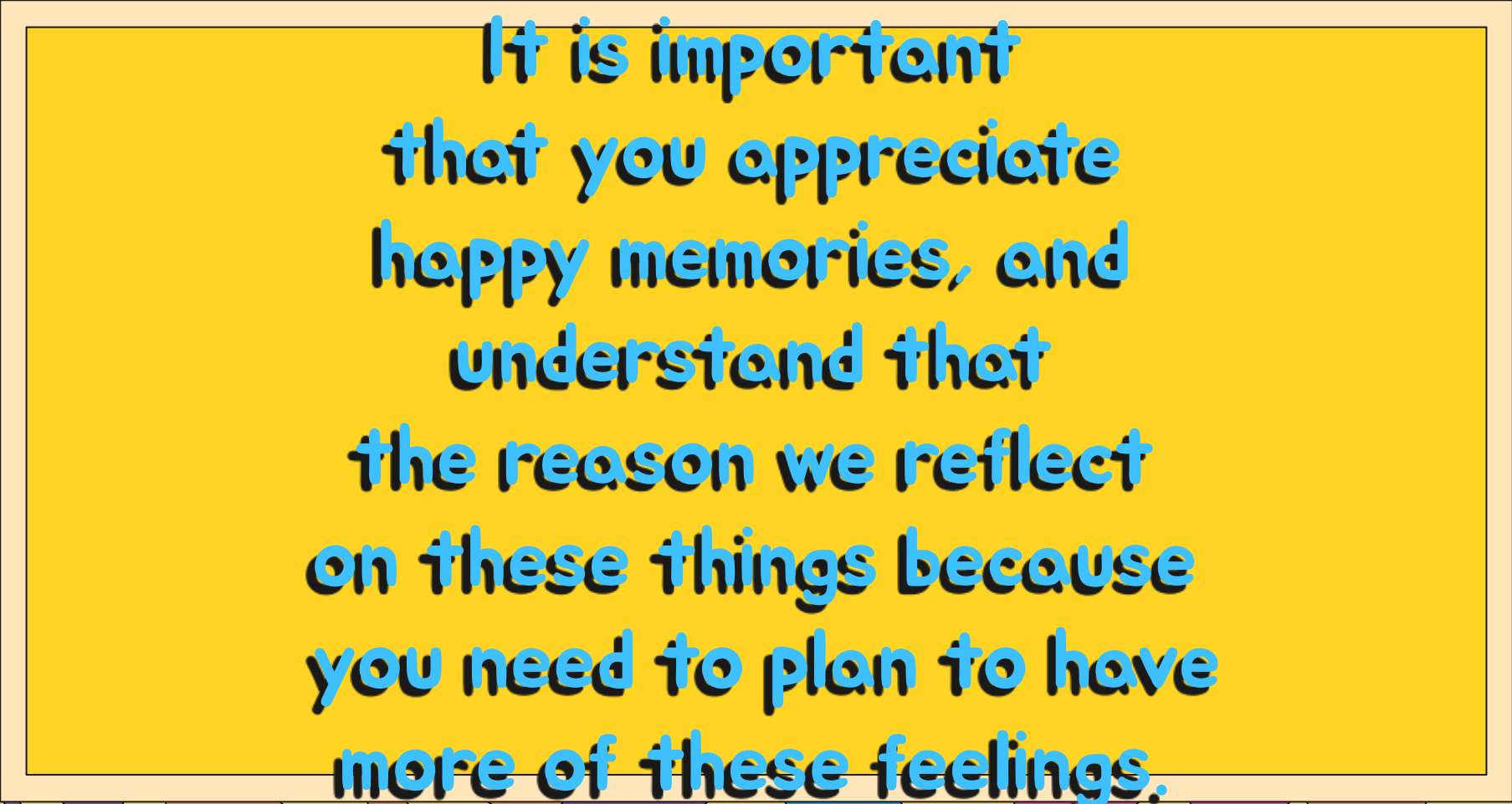
Week 3

# **Learning Intention**

You will learn about how to use positive memories to boost your positive emotions.

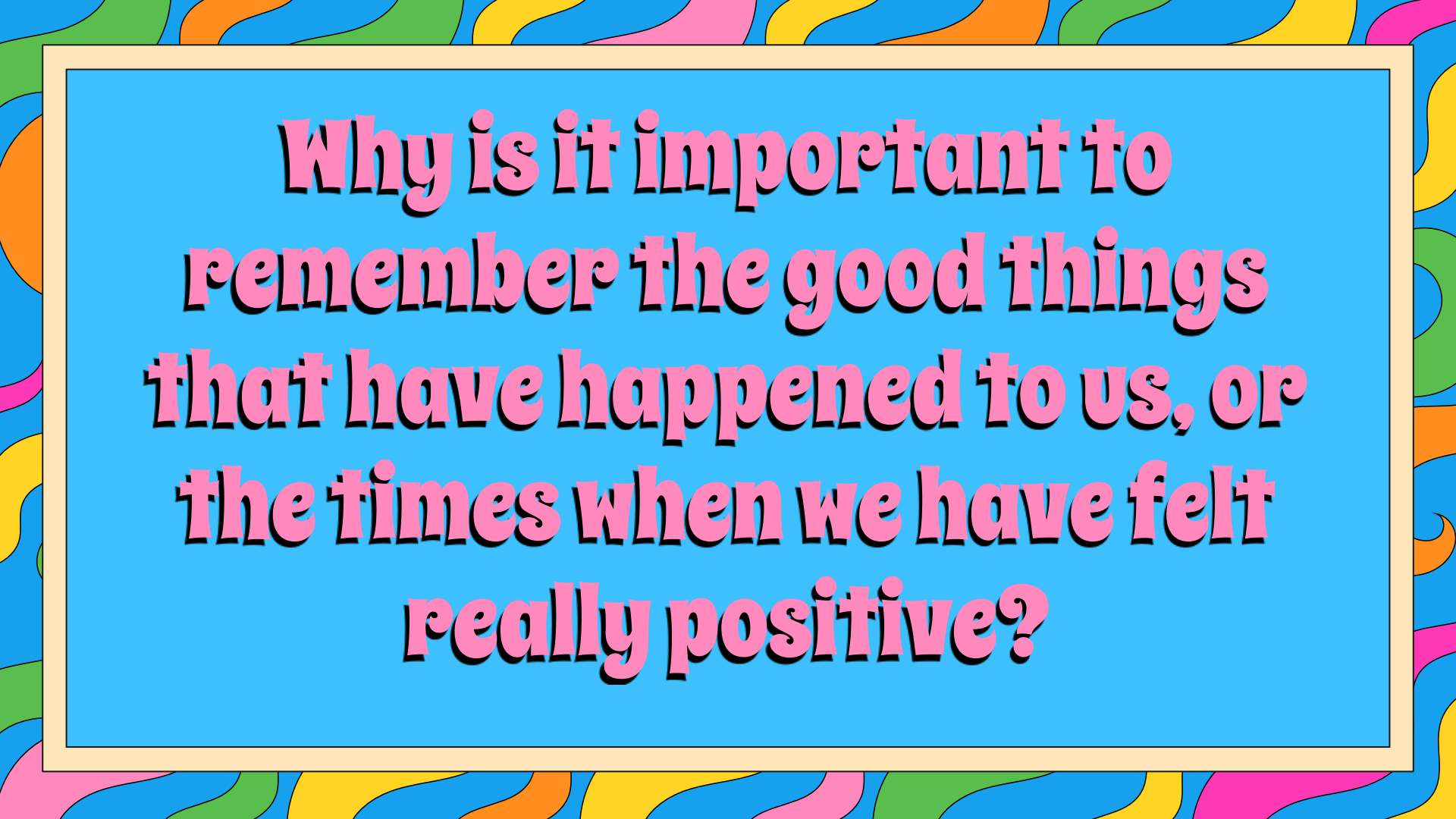
## **Success Criteria**

You can recall positive memories.

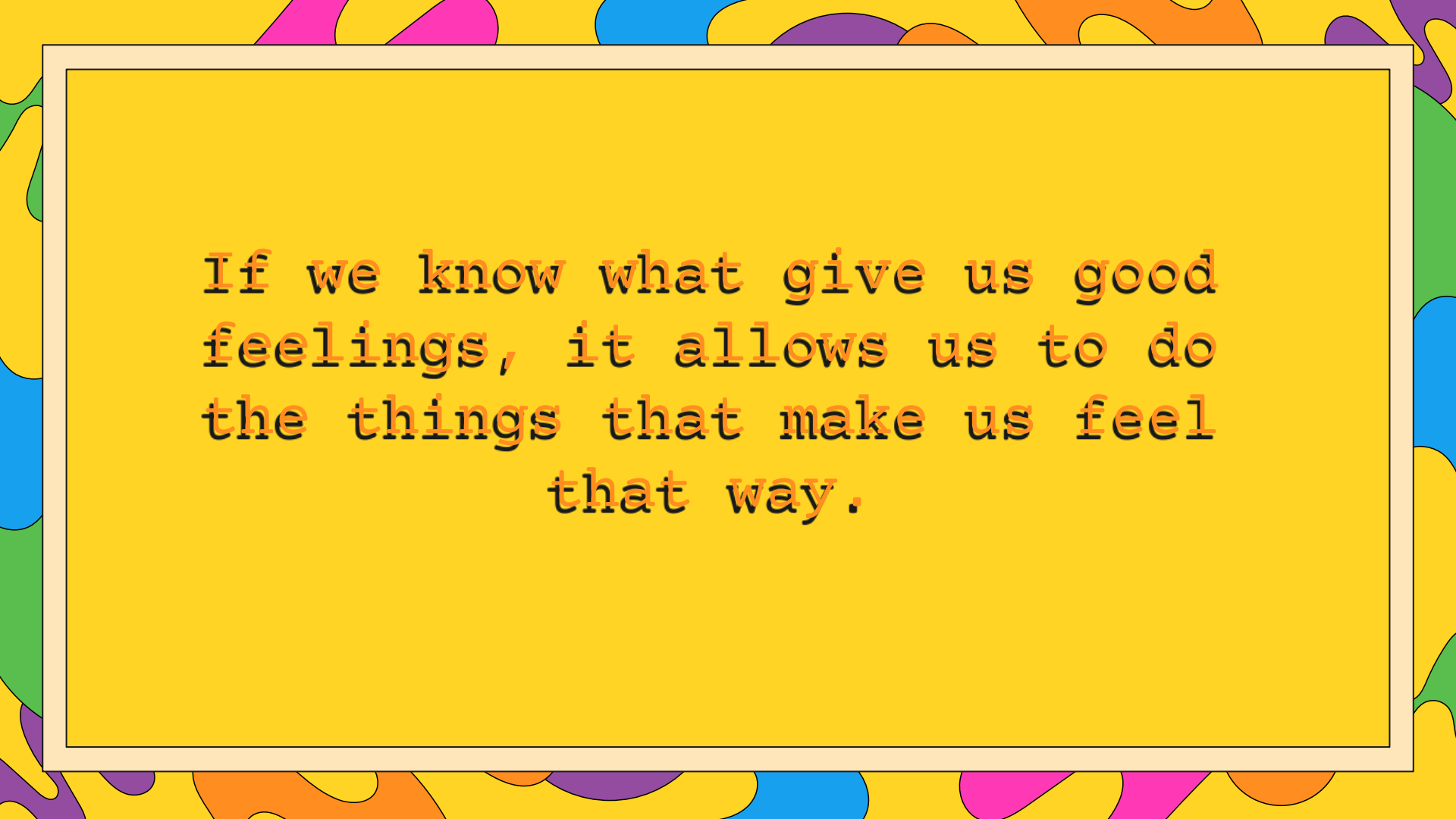


**It is important  
that you appreciate  
happy memories, and  
understand that  
the reason we reflect  
on these things because  
you need to plan to have  
more of these feelings.**

**For Example:**  
**If you identify the**  
**last time that you**  
**felt proud, you can work**  
**out how you could experience**  
**that feeling again.**



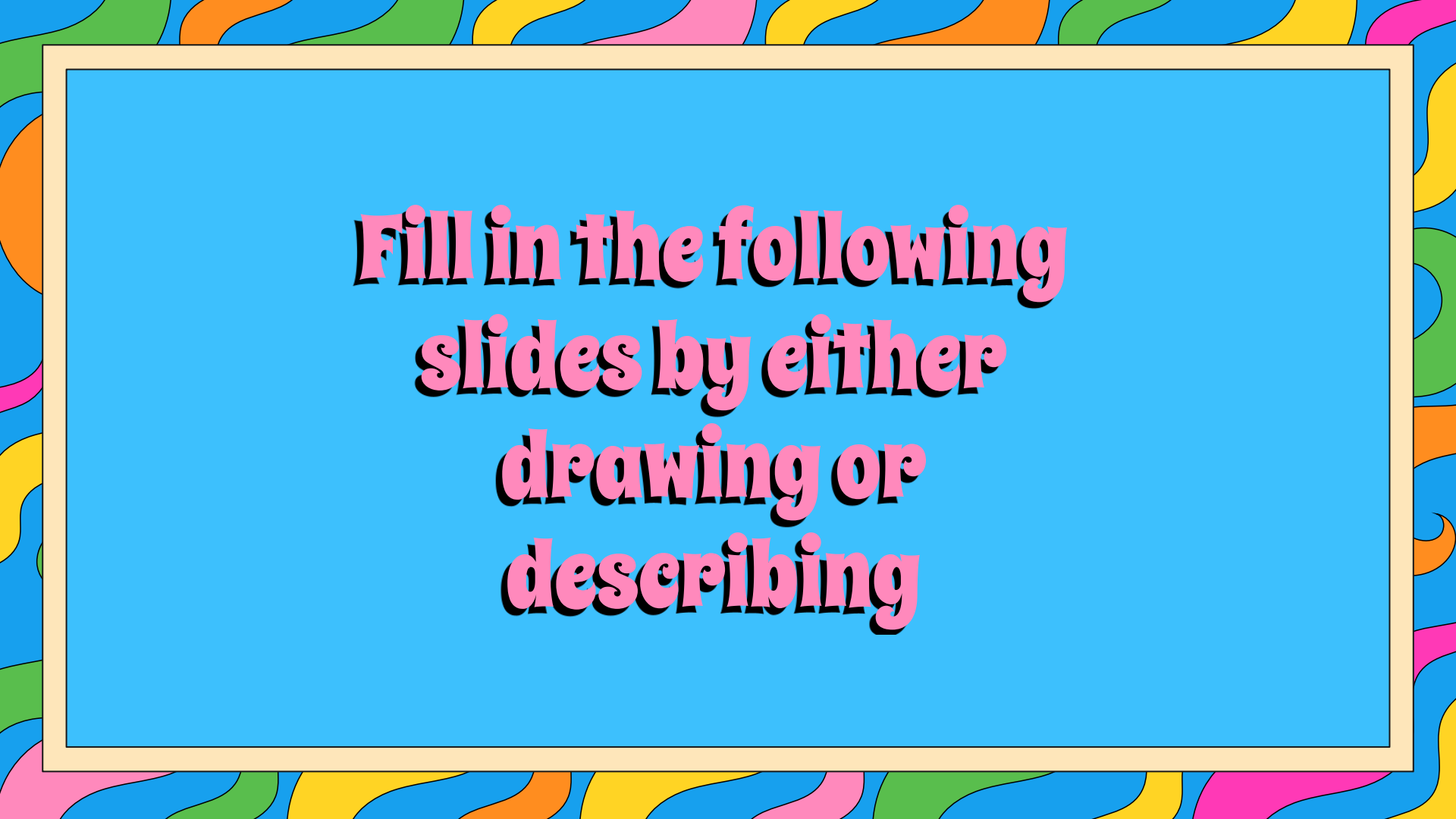
**Why is it important to  
remember the good things  
that have happened to us, or  
the times when we have felt  
really positive?**



If we know what give us good  
feelings, it allows us to do  
the things that make us feel  
that way.

We can think about when we were last really interested in something, and then plan to do something similar in the future...





**Fill in the following  
slides by either  
drawing or  
describing**

**The last time I laughed really hard:**

Write here -



**The last time I felt really happy:**

Write here -



# The last time I enjoyed the outdoors:

Write here -



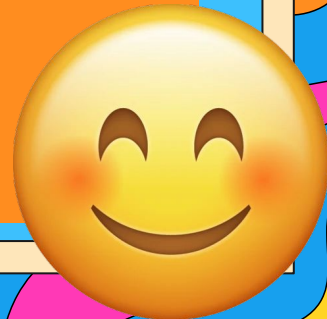
**The last time I ate my favourite food:**

Write here -



**The last time I felt proud of myself:**

Write here -



**The last time I helped someone:**

Write here -



A graphic on a light blue grid background. A large, red, irregular blob shape is in the center. Inside the blob, the text "Wellbeing Wednesday" is written in a white, rounded, sans-serif font. Below this, "Week 2" is written in a black, handwritten-style font. Surrounding the central blob are several colorful pencils (purple, blue, yellow, green, and red) and small, colorful paper clips (yellow, purple, blue, and green). Some of the pencils have long, wavy lines trailing behind them, suggesting motion or drawing. The overall style is playful and creative.

# Wellbeing Wednesday

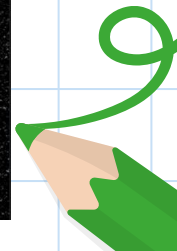
Week 2

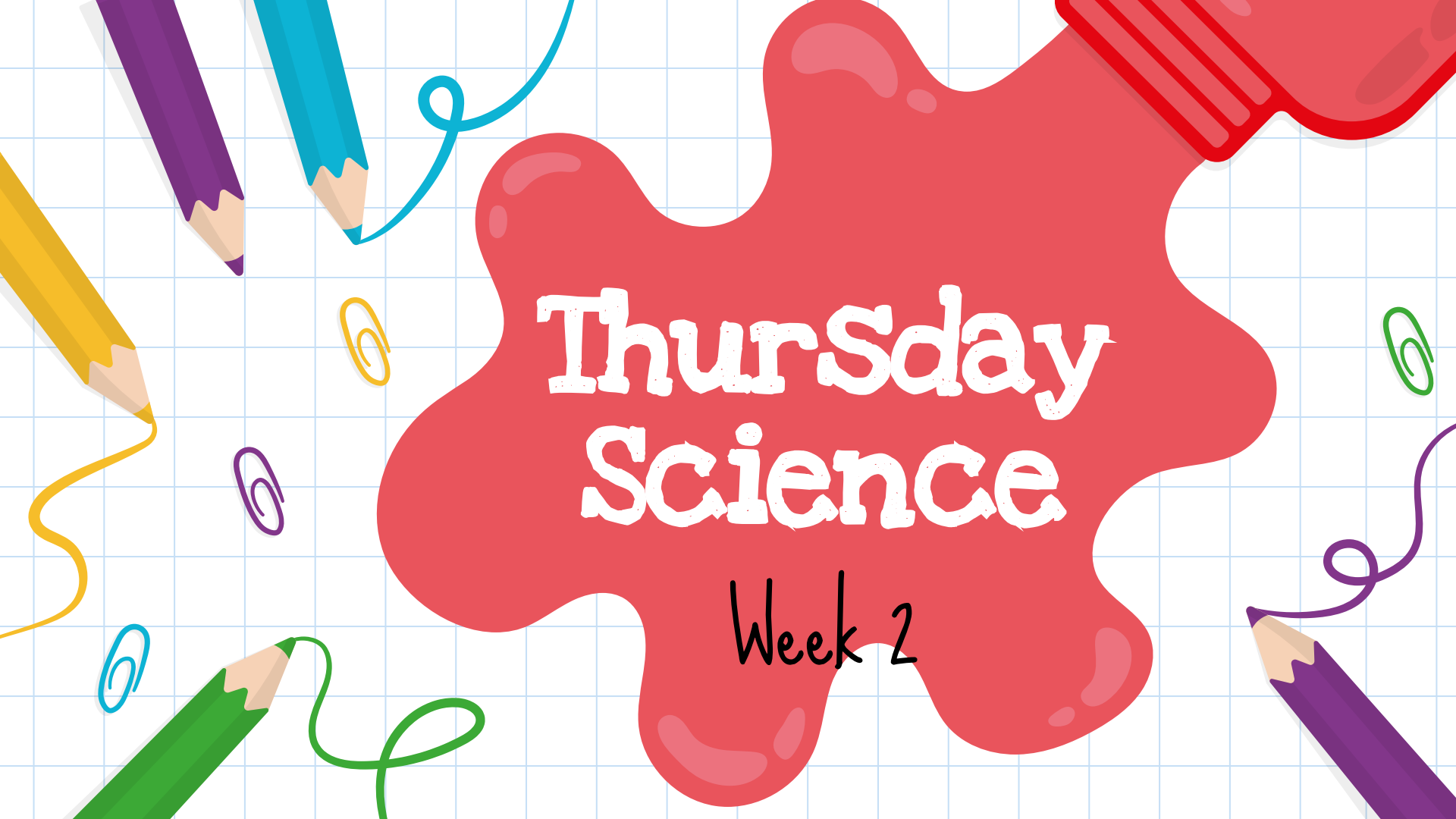
# Wellbeing Wednesday



## WELLBEING WEDNESDAY

<b>Physical</b>	Create your own obstacle course, dance routine or new game.	Spend some active time with your pets. Teach them some new tricks.	Design a new backyard game with modified equipment.
<b>Creative</b>	Make your own healthy treat. It could be fruit salad, a trail mix, muffin or slice.	Build your own pillow fort and spend some time in it with your siblings or teddies.	Listen to your favourite songs. Try and paint or draw how the music makes you feel.
<b>Nature</b>	Use natural materials to create an artwork.	Have a backyard picnic with some of your favourite picnic foods. You might even theme the event!	Go on a nature scavenger hunt. How many different leaves can you find?
<b>Cognitive</b>	Write a poem about how you are feeling and recite it to someone.	Help someone in your family fix something that's broken. What did you learn?	Spend 20 minutes reading something different aloud to a family member, pet or toy.
<b>Social</b>	Design and make a friendship bracelet.	Cook your favourite dish. Explain to the family what the steps were to make it.	Find a penpal (it could be a family member, friend or neighbour). Send them a letter in the mail.





# Thursday Science

Week 2

Welcome to our  
Ter 4 unit,  
Marvellous  
Micro-organisms.

In this unit we will  
learn all about the  
world around us  
that is too small  
to see.


We will learn  
about what  
micro-organisms  
are, how they  
work, and how we  
use them for a  
variety of things.

This is an  
overview of the  
unit

# Marvellous micro-organisms


## Year 6


*Biological sciences*


**Lesson 1:**  
The Y Factor  
(Session 1)

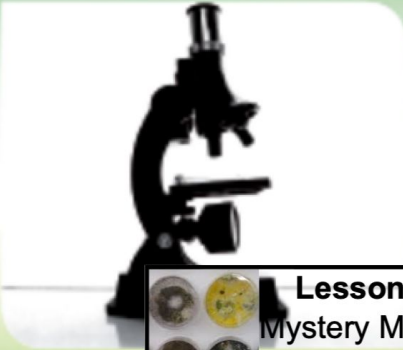
➤ Session 2

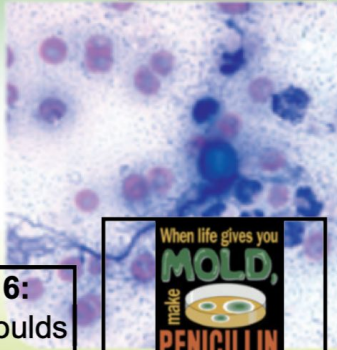
➤ Session 3


**Lesson 2:**  
Yeast Feast


**Lesson 3:**  
Putting the  
Heat on Yeast










**Lesson 4:**  
Knead the Loaf

**Lesson 5:**  
Food Observations

**Lesson 6:**  
Mystery Moulds  
(session 1)

➤ Session 2

**Lesson 8:**  
Micro-organisms Experts

**Lesson 7:**  
Medical micro-organisms

Our first lesson is  
comprised of two  
parts.

1. Please read the  
introduction to  
micro-organisms  
on the next slide.
2. Hopefully by now  
you have the  
ingredients for  
our first  
experiment.  
Please complete  
the experiment  
and document  
your findings.

### All about micro-organisms

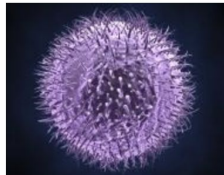
Micro-organisms (also known as **microbes**) cannot be seen by the naked eye (micro means tiny and organism means a living creature); many hundreds of them would fit on the full stop at the end of this sentence.

**They are found everywhere**, in soil, air, water, on your skin and in your guts. Most of the time, when they are in the right place the majority of micro-organisms are **not harmful to people** and often do a lot of good such as breaking down waste and making bread. We couldn't live without them!

**There is a huge variety of micro-organisms.** They can work alone or in colonies. They can help you or hurt you. Most importantly, they make up the **largest number of living organisms** on the planet. There aren't millions, billions, or trillions. There are trillions of trillions of trillions of microbes around the Earth. Maybe more!

The **five types of living micro-organisms** are bacteria, viruses, fungi, algae and protozoa.

1. **Bacteria** can be rod-shaped, spiral-shaped or spherical. Some bacteria can be useful, such as certain types found in the stomach, but other nasty kinds can give you a bad tummy ache or a sore throat.
2. **Viruses** are parasites, which means they can only survive inside the cells of other living things. They can cause infectious diseases, such as chicken pox or measles.
3. **Fungi** can be different sizes ranging from a single cell, like yeast (used to make bread rise), or other fungi such as moulds or toadstools.
4. **Algae** can also be many different sizes – some single-celled algae are actually used in toothpaste!
5. **Protozoa** are single-celled organisms and can cause many diseases, although they are occasionally helpful too.



### Top 10 facts

1. Micro-organisms first appeared on earth about **3.5 billion years ago**. They were very important in sustaining life on our planet.
2. Microbes generate at least half the **oxygen** we breathe.
3. Microbes thrive in extremes of **heat, cold, radiation, pressure, acidity** and **darkness**, and often where no other life forms could exist and where nutrients come only from inorganic matter.
4. Typically there are between **10,000 and 10 million bacteria on each hand!**
5. The number of germs on your fingertips doubles after you use the **toilet**.
6. When you **cough** germs can travel about 3 metres if you do not cover your nose and mouth.
7. Almost **one million bacteria** can be created by one person in a school day.
8. There are more **bacterial cells in our bodies** than there are human cells.
9. While bacteria on the outside of your body can cause serious **infections**, the bacteria inside your body can **protect** against it. Studies have shown that animals without gut bacteria are more likely to catch serious infections.
10. Humans have used bacteria to help us in other ways for thousands of years. Bacteria are used to **make yogurt and cheese**. The flavour of these foods comes from bacterial by products!

### Yeast Lab – Teacher Directions

The purpose of this lab is to answer the question: Is yeast is a living organism?

#### Materials:

1 water bottle

1 balloon

1 tsp yeast

$\frac{3}{4}$  cup warm water (Do not use boiling water, it will kill the yeast)

2 tsp sugar

#### Directions: Give students the Yeast Lab Worksheet

1. Question: Is yeast a living organism?
2. Prior Knowledge: *Ask students:* What do you already know about yeast?
3. Hypothesis: Ask students to form a hypothesis, based on their previous knowledge, if yeast is a living organism.
4. Experiment:  
Have students follow along as you demonstrate the yeast experiment step by step:
  - a. Place yeast and sugar in the bottle.
  - b. Add the water to the bottle and swirl it around.
  - c. Pull the balloon over the top of the bottle.
  - d. Wait 20-25 minutes.

The balloon will start to inflate as the yeast eats the sugar and creates

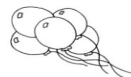
5. Analyze what happened: Ask students to record what they observed about the balloon and the yeast.
6. Conclusion: Based on our experiment, is yeast a living organism?  
Yes ☐
7. Was your hypothesis correct?

Name: \_\_\_\_\_

Date: \_\_\_\_\_



# Yeast Lab



1. Question: \_\_\_\_\_

2. Background knowledge: What do I already know? \_\_\_\_\_

3. Hypothesis: \_\_\_\_\_

4. Experiment:

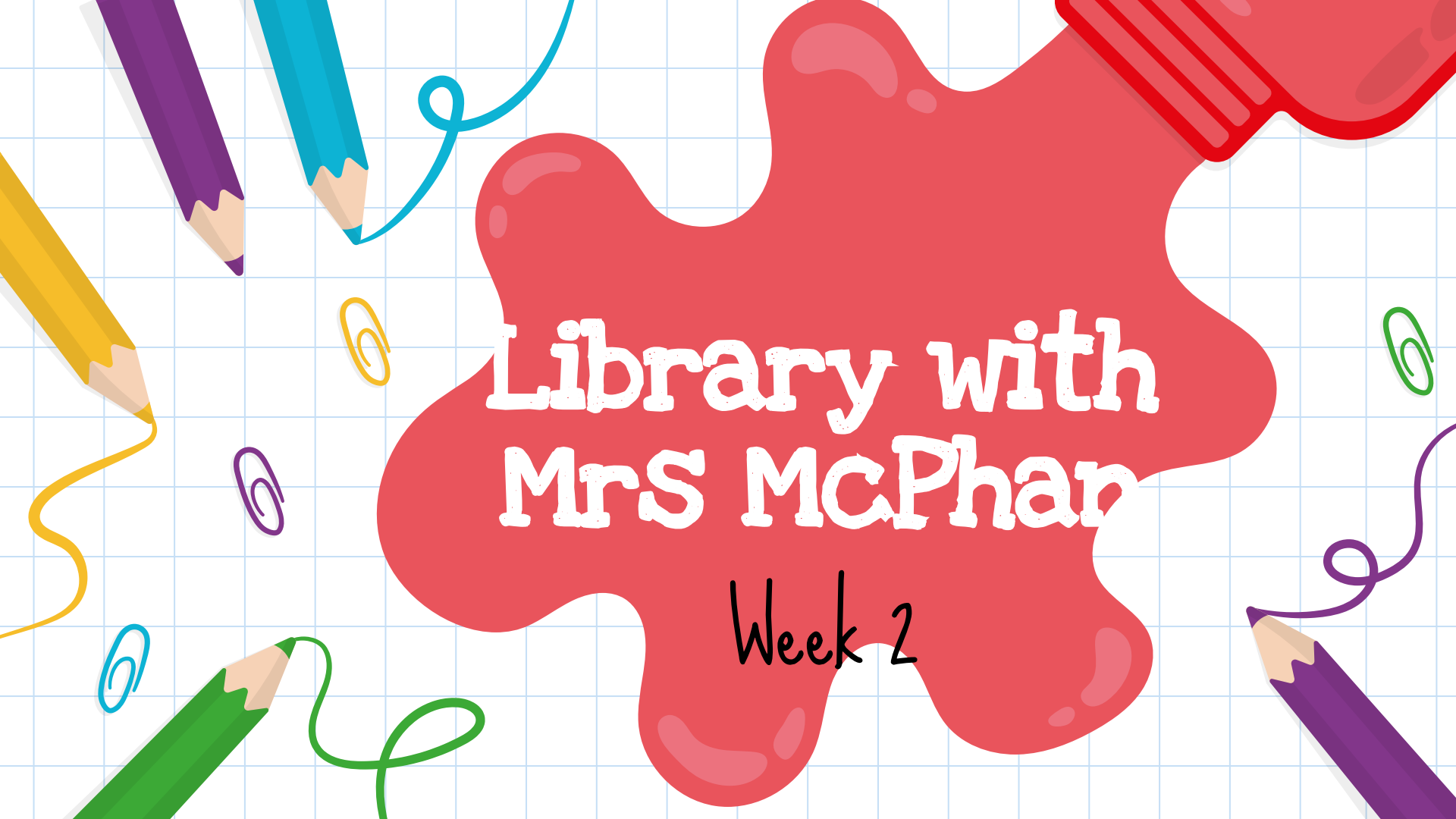
- Place yeast and sugar in the bottle.
- Add the water to the bottle and swirl it around.
- Pull the balloon over the top of the bottle.
- Wait 20-25 minutes.



5. Analyze what happened: \_\_\_\_\_

6. Conclusion: \_\_\_\_\_

7. Was your hypothesis correct? \_\_\_\_\_



# Library with Mrs McPhar

Week 2



# The Great Desert Island STEM CHALLENGE

Library Stage 2 and 3

Term 4, Week 2





Not so long ago, a group of adventurous travelers set sail for a week on the open seas. The skies were clear and blue. The water peaceful and calm - The ideal conditions for a relaxing voyage.

Unfortunately, on the second night, a great storm came upon the group while they slept in the cabin below deck. The violent storm tossed the passengers from one side of the ship to the other. The captain tried to take control but was knocked overboard by a massive wave!

Eventually, the ship came to a crashing halt when the storm threw it onto the rocky shore of a deserted island. Sadly, only one traveler survived the ordeal - Sir Harley Houndstooth III. He dragged himself onto the beach and looked around, wondering what to do next.

It is now your job to help him survive the island and get back to the civilized world. Are you up to the challenge?



**Day 5:** Today my fears were confirmed. Yes, there are wild beasts living on this island. Just a short distance from my hut, I discovered an incredible grove of fruit trees! Mangoes, bananas, and lemons! Yet I cannot reach them; for standing in my way is a lagoon full of the most terrifying crocodiles I've ever seen. I must find a way to reach that grove!

Perhaps I could find enough branches and vines to build a bridge. But would it be strong enough? Or would I fall into the awaiting jaws of those hungry crocs?



# STEM challenge - Design a bridge that can hold weight

Plan, design and build a bridge that is at least 30cm long.



Your bridge must :

- Have a labelled plan that you have designed and followed when building your hut. Remember builders don't construct houses without a plan!
- Hold weight - Use a toy/spoon/remote control (these are just examples you can use anything) to demonstrate that your bridge is strong.
- You could use materials from your recycling bin, books, paper, toys, pillows, chairs anything you can find at home (this is where your creativity skills are used!)

Describe the problem. What do you want to happen?

Brainstorm! Put all of your ideas here. Circle the best ones.

Draw your plan here: