


















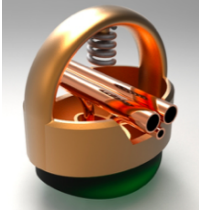



# Stage 3 Term 4 Week 3 Learning Activities (Monday 18 – Friday 22 October)






You will need access to a digital device and help from a parent/carer to complete some of the following activities. If you are unable to access a device, please record and complete work in a notebook/ workbook of your choice. Keep a copy at home to bring in to your teacher when face to face learning resumes. You may also take a photo and email your teacher. Work through what you can and just do your very best.  This symbol indicates that the work can be completed on Google Classroom.

	Monday 18/10	Tuesday 19/10	Wednesday 20/10	Thursday 21/10	Friday 22/10
M o r n i n g	<p><b>Read: Artist Moon</b></p> <p>What is the poem talking about?</p> <p>What is the moon doing?</p> <p>What human job has the moon been assigned?</p> <p>Check the title for a clue.</p> <p>What is the language feature called when we assign human aspects to a non-human thing?</p> <p>Give the following things human jobs. Give reasons for your answers.</p> <ul style="list-style-type: none"> <li>- Bee: a miner who goes out to dig up "gold"</li> <li>- Earthquake: a demolisher who levels buildings</li> <li>- Rain:- The Southern Cross:- Sun:</li> </ul> <p>Select one of the choices above or think of your own. Create your own poem following the structure of 'Artist Moon':</p> <p><b>9.30 -10.00am</b> <b>Class Zoom</b> </p>	<p><b>Read: Lunar Wildlife Part 1</b></p> <p> Define the following words:  </p> <p>untroubled: enveloping:</p> <p>instantaneously: uninhabited:</p> <p>docile:</p> <p>List anymore words that you did not know the meaning of and look up the meanings:</p> <p>What do they miss since leaving Earth?</p> <p>Where do Kate and Ellis live?</p> <p>Describe the environment/setting in this story:</p> <p>When did the settlers begin arriving?</p> <p>Do you think Moonbeam would make a good pet? Why or why not?</p> <p>Write the next paragraph of this text as you predict it...</p> <p><b>9.30 -10.00am</b> <b>Class Zoom</b></p> <p><b>Writing: How to complete your favourite activity</b></p> <p>Think of a favourite activity that you like to do and write a set of instructions explaining how to complete that activity. Instead of </p>	<p><b>Read: Lunar Wildlife Part 2</b></p> <p>Define the following words: </p> <p>Intently: precautions: protruding:</p> <p>List anymore words that you did not know the meaning of and look up the meanings:</p> <p>Describe the personalities of Kate and Ellis use examples from the text to support your answers.</p> <p>One example has been done for you.</p> <p>Lunar Wildlife paints an interesting picture about what life would be like on Mars, complete with the following table describing these elements mentioned in the text.</p> <p>Accommodation, Transportation, Weather/atmosphere, Fauna.</p> <p>Do you think Kate and Ellis did the right thing returning Moonbeam? Why or why not?</p> <p>List two things you found interesting in this text:</p> <p><b>9.30 -10.00am</b>  <b>Class Zoom</b></p> <p><b>Writing: Interesting Object Procedure</b> </p>	<p><b>Read: Stumped</b></p> <p>What is the poem about? </p> <p>What happened to the narrator?</p> <p>Why do you think the title is 'stumped'?</p> <p>What could be another title for this poem?</p> <p>List the rhyming words in this poem:</p> <p>Can you think of a similar event that you have experienced?</p> <p>Create a stanza about the event you thought of in question 6:</p> <p><i>Yesterday I...</i></p> <p><b>9.30 -10.00am</b>  <b>Class Zoom</b></p> <p><b>Writing: Flowcharts</b> </p> <p>See information sheet below or on Google Drive.</p> <p><b>Spelling:</b> </p> <p>Complete the Dictionary Dig and Secret Message activities.</p>	<p style="text-align: center;"><b>Final Friday</b></p> <p><b>9.30 -10.00am</b>  <b>Class Zoom</b> </p> <p><b>Writing: Follow Instructions Friday - Games</b></p> <p>This Friday we are looking at games.</p> <ol style="list-style-type: none"> <li>1. Find a game in your house or <a href="#">online</a>. It could be a deck of <a href="#">cards</a>, a board game or a <a href="#">simple computer game</a>.</li> <li>2. Follow the instructions.</li> <li>3. Can you invent a new game?</li> </ol> <p><b>Spelling:</b> </p> <p>Complete the Unjumbler activity on Soundwaves online before rewriting the incorrectly spelled passages.</p> <p><b>Art:</b></p> <p><b>Andy Warhol Inspired Art piece.</b></p> <p>In the video it demonstrates how to do the project! They first drew the object once on the 4x4" piece of paper, (could be any object!) traced it with a Sharpie so it would show through my</p>

<p> <b>Writing: Clear Procedures</b> Watch <a href="#">this</a> funny video. What do you think about the children's procedures? How important is it to make sure your steps are clear? You are going to write your own set of procedures for making the world's most disgusting sandwich. Make sure it is clear and disgusting!! Make your instructions detailed and use the correct format. You could use Canva or draw any illustrations to go with your procedure. It is up to you! Give your procedure a title and make sure you use the correct language features e.g. imperative verbs.</p> <p> <b>Spelling:</b> Complete your Pre-test and the Base Words activity,</p>	<p>writing the instructions, you may want to film yourself explaining it. Suggestions could be: How to perform a trick on your bike How to hula hoop How to solve a certain problem in a computer game How to complete a magic trick How to draw a certain character/thing The choice is up to you! Make sure you let us see your instructions! You could write below, use Canva or send us a video.</p> <p> <b>Spelling:</b> Complete the Story Time and Brainstorm activities.</p>	<p>Find an unusual object from around your house, something that not everyone will know what it is used for. If you can't find anything, you could use this object pictured.</p>  <p>Write a set of instructions about what it is used for and how to use it. Feel free to completely make it up, but make sure you stick to the correct format for writing a procedure.</p> <p> <b>Spelling:</b> Complete the two suffix activities (-sion and -ism)</p>		<p>paper, and then traced it 6 times onto my 9x12" paper. Btw, we folded that paper in thirds, by folding it in half longways, and then folding it twice on both ends. After they traced, they traced with a Sharpie, and colored with Crayola markers!</p> <p><b>Here is the first video you need to watch before getting started:</b> <a href="https://www.youtube.com/watch?v=MkxVAAbmQ5o&amp;feature=emb_title">https://www.youtube.com/watch?v=MkxVAAbmQ5o&amp;feature=emb_title</a></p> <p><b>Second video:</b> <a href="https://www.youtube.com/watch?v=5qADHPxGI6s">https://www.youtube.com/watch?v=5qADHPxGI6s</a></p> <p><b>Third video:</b> <a href="https://www.youtube.com/watch?v=qPtROJWA4hM&amp;feature=emb_title">https://www.youtube.com/watch?v=qPtROJWA4hM&amp;feature=emb_title</a></p> <p><b>Here is a website to also help you along:</b> <a href="https://elementsofheartroom.blogspot.com/2020/01/5th-grade-andy-warhol-inspired-po-p-art.htm">https://elementsofheartroom.blogspot.com/2020/01/5th-grade-andy-warhol-inspired-po-p-art.htm</a></p>
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**10:00 Education Live: NSW Department of Education Live Stream Access it [HERE](#)**

**Break**

M i d d l e	<p> <b>Learning Activity</b> Maths Year 5: Data Survey Year 6: Sector Graphs</p>	<p> <b>Learning Activity</b> Year 5: Interpreting Graphs Year 6: Two-way Tables</p>	<p> <b>Learning Activity</b> Year 5: Mean Scores (Average) Year 6: Misleading Data</p>	<p> <b>Learning Activity</b> Year 5: Spreadsheet Data Year 6: Side-by-side Column Graphs</p>	<p> <b>Learning Activity</b> Year 5 and Year 6: Addition and Subtraction Escape Room</p>
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**Break**

### Geography

#### How do People Manage Spaces in our Community?


The local government is in charge of planning in their local area.

To help with this they divide the area into **zones for land use**.

Use the google doc to explore how local councils plan a town. **Design a plan for a town following some basic town planning rules.**

#### Mr Killingworth: PE Challenge

**The paper challenge**  
Watch the link below and see if you can complete the paper challenge.

 **Physical Challeng...**

### Music with Mr Stevens

#### [mark.stevens15@det.nsw.edu.au](mailto:mark.stevens15@det.nsw.edu.au)

#### Video game composition

Compose a masterpiece using this sheet music website: <https://danielx.net/composer/>

Here's the start of one [Mr. Stevens made](#) to give you an idea of how it works.

What I'm looking for: You are a video game designer. Your challenge is to create a piece of music that sounds like it belongs in a video game of your choice. Will it be a puzzle/racing/ninja/sidescrolling/rpg style game? You decide...

What a good one looks like: A good soundtrack needs to reflect the action of the game e.g. a racing game will have a fast and furious melody. Use the icons at the top of the screen to change the tone colour of the sounds and decide how many notes you will use to make it sound busy or calm.

If you want to you can email a link to your soundtrack to:

[mark.stevens15@det.nsw.edu.au](mailto:mark.stevens15@det.nsw.edu.au)

### Science: Space Junk

#### Watch the BTN segment called [Space Junk](#) and answer the following questions.

Retell the BTN Space Junk Clean-up story using your own words.

What is the name of the first satellite launched into space?  
What year was the first satellite launched in Earth's orbit?

What type of space junk can be found orbiting Earth?

How many pieces of space junk the size of a marble or bigger is orbiting Earth?

How might a disaster involving space junk affect humans on Earth?

What does the RemoveDEBRIS junk collector look like? Describe. How does the RemoveDEBRIS junk collector collect and remove space junk?

What will happen to the RemoveDEBRIS junk collector once it has completed its mission? Illustrate an aspect of the Space Junk Clean-up story.

**Space Junk Research Task: Choose one or more of the following questions, or come up with your own:**

- How much junk is in space?
- What causes space junk?
- How long does space junk stay in orbit?
- What danger does space junk pose?

### Library With Miss Compton

Research and Library Skills about the Seahorse Hotel

[Sydney aquarium release endangered White's Seahorse into 'SeaBnBs' in Manly](#)

Complete the google doc with the questions and activities about the Seahorse Hotel.

#### Mr Killingworth:

#### PE Challenge

#### The toilet paper challenge

Watch the link below and see if you can complete the toilet paper challenge.

 **Physical Challenges! - #6 ...**

### PE with Mr Killingworth.

#### Fitness Circuit

#### Warm up

30 Seconds running on the spot  
20 x Star jumps  
30 x Heel flicks

#### Circuit

20 x High knees  
30 Seconds bear crawl  
20 x Burpees  
20 x Slow star jumps  
10 x Bodyweight squats  
10 x Lunges each leg  
10 x Push-ups

Get a drink of water

**Repeat x 2**

#### Sock basketball

#### Equipment needed:

**Socks Laundry basket**

Challenge a parent, carer or a sibling in a game of sock basketball. Take turns shooting and scoring into a laundry basket, tallying up your score as you go

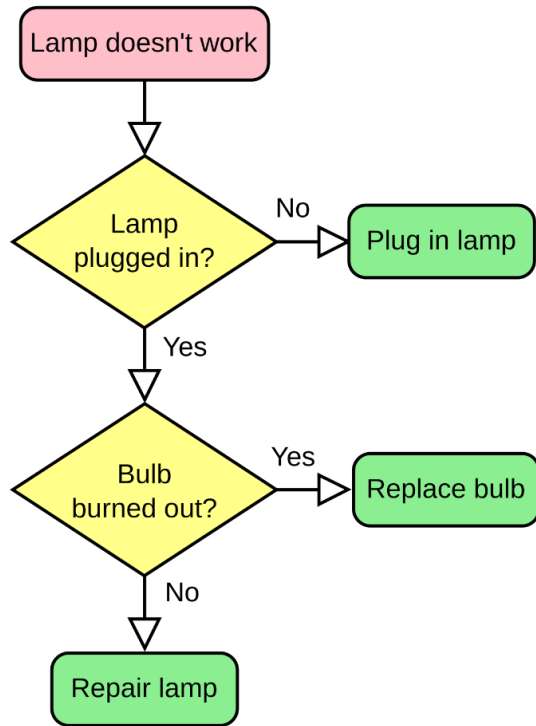
You can create your own scoring and rules eg once you move back past a certain point a shot becomes worth 3 points






- |  |  |   |  |  |
|--|--|---|--|--|
|  |  | <ul style="list-style-type: none"><li>• Why is space junk a threat to humans on Earth?</li><li>• Why is it difficult to clean up space junk?</li><li>• What are some solutions to the space junk problem?</li><li>• Who is responsible for cleaning up space junk?</li></ul> <p>Present your information as infographic using <a href="#">canva</a> or on a google slide.</p> |  |  |
|--|--|---|--|--|

# Flowcharts

Flowcharts are an extremely useful means of delivering clear instructions without confusion or opinion. They not only prescribe actions but also identify parts of the process requiring intervention or action.

This flowchart can be considered an algorithm, or a set of instructions for diagnosing and repairing a faulty lamp. Refer to the table below for deeper understanding.



SYMBOL	NAME	FUNCTION
	Start / End	The oval represents the start or the end of a process
	Arrows	The arrow illustrates relationships and directional flows between symbols
	Input / Output	The parallelogram represents input or output
	Process	The rectangle represents a specific process
	Decision	The diamond indicates a decision making process

There are 3 different options to create a flowchart.

- 1) Create your own flowchart on anything
- 2) How to make a cup of tea
- 3) Should I post that online?

Choose 1 or all of the options!

List Words - Unit 30



Spelling - Term 4, Week 3

Complete BOTH activities each day this week.

For extra tasks and games, log onto [www.soundwaveskids.com.au](http://www.soundwaveskids.com.au)

Soundwaves log in codes: Year 5 - **read094** Year 6 - **blue290**

Level 1	Level 2	Level 3		Monday	Tuesday	Wednesday	Thursday	Friday
zip does toys zero zebra these those close always busy easy please use used size	z zz s se lose enclose desert grease freeze dazzling excuse cause adviser	z zz s se advisory authorisation citizenship deserted emphasise imprisonment positioned resourceful zoology	<b>Task 1</b>	<b>Pre-test</b> Ask someone at home to test you! These are your list words for the week.	<b>Story Time</b> Write a story using as many words as you can. Underline each of your spelling words and create an illustration to go with your story.	<b>Suffixes</b> Brainstorm words with the suffix "-sion". Find the meaning of the words and the meaning of the "-sion" suffix.	<b>Dictionary Dig!</b> Highlight the word in each pair that would come first in the dictionary.	<b>Unjumbler</b> ★ Log onto Soundwaves and complete this activity for Unit 30. Level 1 - those380 Level 2 - read094 (general) Level 3 - read094 (extension)
	s si usually pleasure leisure collision massage decision	s si amnesia casual composure envision provisional sabotage	<b>Task 2</b>	<b>Base Words</b> Write the base words from which these words have been built. The base words are list words from level 2.  <i>greasy, loser, advisory, freezing, enclosure, because</i>	<b>Brainstorm</b> Brainstorm  z zz s se words that have 4, 5, 6, 7, 8, 9 or more letters.	<b>Suffixes</b> Brainstorm words with the suffix "-ism". Find the meaning of the words and the meaning of the "-ism" suffix.	<b>Secret Message</b> Delete the words where you hear  s si. Answer the question that is left. <i>Which measure country treasure lies leisure to pleasure the revision north division of indecision Australia and massage has camouflage 's si' in its name?</i>	<b>Corrections</b> Rewrite the incorrectly spelled sentences with correct spelling and punctuation.

Data survey

unit  
26

Interpreting graphs

REASONING CCT N

11 A recent newspaper article said that children spend too much time playing games on their tablets. Stella told her teacher that the article was not correct and that children do other things on the tablet besides play games.

Games are only a small part of what kids can do on tablets.



a Write some questions you could use in a survey to find out what other things children may do on a tablet, and to find out if Stella is correct.

- (i) \_\_\_\_\_
- (ii) \_\_\_\_\_
- (iii) \_\_\_\_\_

b Who should you interview for this survey? \_\_\_\_\_

c Make your own prediction about how children use tablets. \_\_\_\_\_

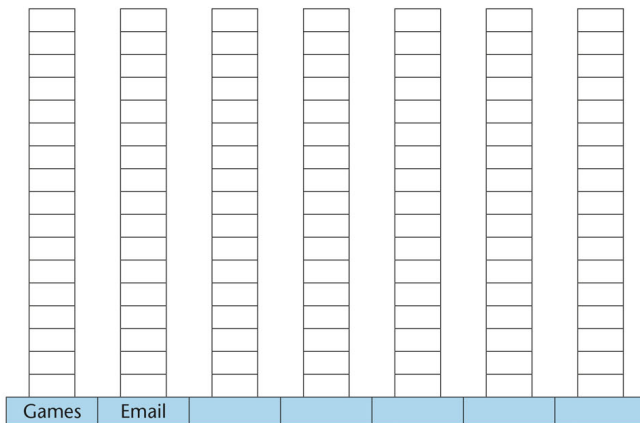
12 Conduct your survey and record your data in the table to find out how children use tablets.

Games	Email					

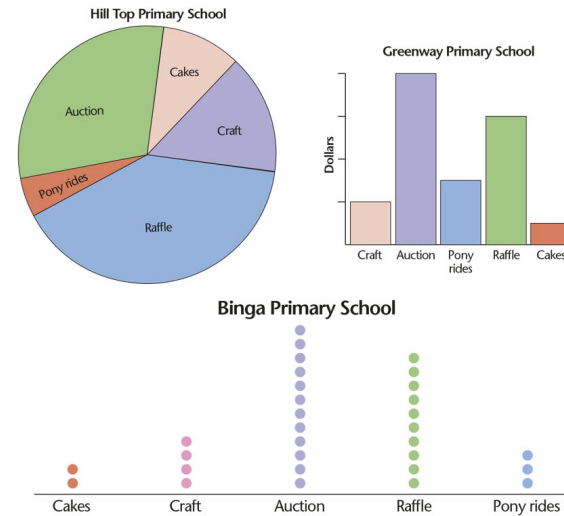
13 Comment on your prediction after you have the survey results. \_\_\_\_\_

14 Construct a column graph to record your data.

How children use tablets



Three primary schools each raised the same amount of money at their fetes.



6 Answer these questions.

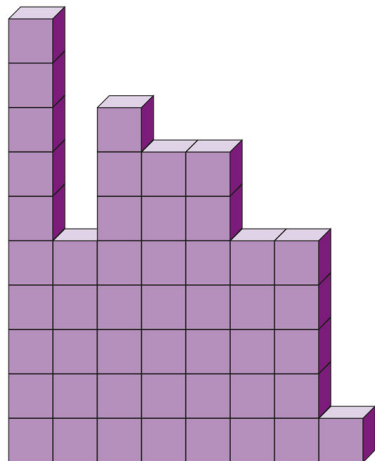
- a Which activity raised the most money at Hill Top Primary School? \_\_\_\_\_
- b Which activity raised the most money at Greenway Primary School? \_\_\_\_\_
- c Which activity raised the most money at Binga Primary School? \_\_\_\_\_
- d Which activity raised the least amount at Binga Primary School? \_\_\_\_\_
- e Which activity raised the least amount at Hill Top Primary School? \_\_\_\_\_
- f Which activity raised the least amount at Greenway Primary School? \_\_\_\_\_
- g Were pony rides the least successful at all schools? \_\_\_\_\_
- h Which two activities raised the most money at all schools? \_\_\_\_\_
- i Which was more successful at Greenway, craft or pony rides? \_\_\_\_\_
- j Which was more successful at Binga, craft or pony rides? \_\_\_\_\_
- k Which was less successful at Hill Top, craft or cakes? \_\_\_\_\_
- l If \$300 was raised at Hill Top's auction, is it reasonable to say that the raffle raised about \$350? \_\_\_\_\_

# Mean scores (average)

unit  
30

- 10 The column graph below has been made with blocks to show Jackson's spelling scores over 8 weeks.

### Jackson's spelling scores



- a To calculate his mean score (average) you can move the blocks around until all columns are the same height.

Do this for Jackson using concrete materials and record the mean height of the columns in your column graph.

Mean =

- b The mean can also be found by adding all the scores and then dividing by the number of scores.

Complete this operation to find Jackson's mean score.

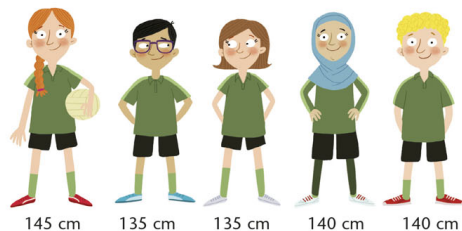
$(10 + 5 + 8 + 7 + 7 + 5 + 5 + 1) \div 8 = \underline{\hspace{2cm}}$

- 11 Did your mean score match the height of the columns in your graph?

- 12 Find the mean of these sets of numbers.

	Scores			Mean
a	3	5	7	
b	7	9	11	
c	12	10	14	
d	10	20	15	
e	16	30	20	
f	13	20	15	

	Scores				Mean
g	2	4	6	8	
h	3	5	7	9	
i	8	12	10	14	
j	7	5	9	11	
k	5	10	13	20	
l	10	20	15	15	



145 cm    135 cm    135 cm    140 cm    140 cm

- 13 What is the mean for the height of these boys and girls from the Green Point Netball Club?

Mean =  cm

# Spreadsheet data

unit  
30

- 4 Savings spreadsheet

Complete this spreadsheet. The C column has the calculations listed and has been widened to allow for your answers.

	A	B	C
1	Date	Deposit	Subtotal
2	31 Jan	\$319.50	(= C2) \$319.50
3	28 Feb	\$116.30	(= C2 + B3) 435.80
4	31 Mar	\$121.40	(= C3 + B4)
5	30 Apr	\$213.70	(= C4 + B5)
6	31 May	\$118.05	(= C5 + B6)
7	30 June	\$214.90	(= C6 + B7)
8	31 July	\$325.50	(= C7 + B8)
9	31 Aug	\$124.50	(= C8 + B9)

\$ 3 1 9 . 5 0  
+ \$ 1 1 6 . 3 0  
\$ 4 3 5 . 8 0

Spreadsheets are used to organise, display and calculate.



### Bombers Baseball Club expenses

	A	B	C	D
1	Date	Item	Cost	Balance
2	1 Aug	Opening	—	\$3250.00
3	5 Aug	Registrations	\$1350.00	(= D2 - C3) \$1900.00
4	27 Aug	Mitts	\$275.00	(= D3 - C4) \$1625.00
5	1 Sep	Bags	\$87.00	(= D4 - C5) \$1538.00
6	5 Sep	Bats	\$723.00	(= D5 - C6) \$815.00
7	27 Sep	Balls	\$257.00	(= D6 - C7) \$558.00
8				(= D7 - C8)
9				(= D8 - C9)
10				(= D9 - C10)
11				(= D10 - C11)

\$ 3 2 5 0  
- \$ 1 3 5 0  
\$ 1 9 0 0

Spreadsheets on computers calculate at great speed.



- 5 Add these items to the Bombers spreadsheet.

- a Item 8. On 28 September the club bought helmets for \$250.00.
- b Item 9. On 11 November the club bought trophies for \$178.00.
- c Item 10. On 12 November the club spent \$40.00 on oranges.
- d Item 11. On 15 November the club spent \$55.50 on stationery.

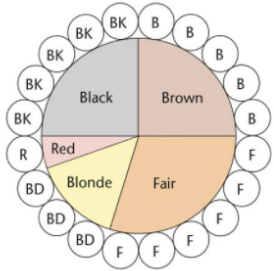


unit  
**20**

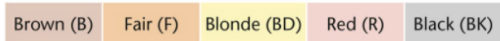
## Sector graphs

**How sector graphs are used**

Sector graphs are circular graphs used to show how a total is divided.



**13** Ms Mansfield's class made a sector graph of the hair colour of 20 students. The categories they used were:



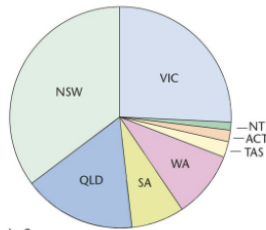
**1. Give a fraction for each hair colour.**

- a) Brown:  $\frac{5}{20}$  or  $\frac{1}{4}$
- b) Blonde:
- c) Black:
- d) Fair:
- e) Red:

**2. Population of states and territories**

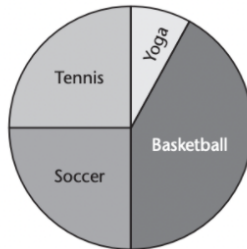
(For this exercise, Australia's population has been rounded to 25,000,000.)

- a) Which two states have the largest populations?
- b) Which territory has the smallest population?
- c) Which state and territory are reasonably close in population?
- d) Do you think that NSW has a population of over 5 000 000?
- e) What would you estimate Queensland's population to be?



**3. Sport Sector Graph**

- a) Create a title for the sector graph.  
Title:
- b) Create 5 questions for the sector graph to the right.



unit  
**21**

## Two-way tables

Two-way tables are used to show the relationship between data.

**How we communicate**

Sam surveyed 100 men, women, boys and girls to find out the most popular ways of communicating electronically.

Communication	Men 40+	Women 40+	Boys 15 yrs	Girls 15 yrs
Phone	30	45	5	4
Messaging	25	25	50	60
Email	30	19	12	6
Texting	12	10	33	30
Other	3	1	0	0



**7** What is the most popular way of communicating for:

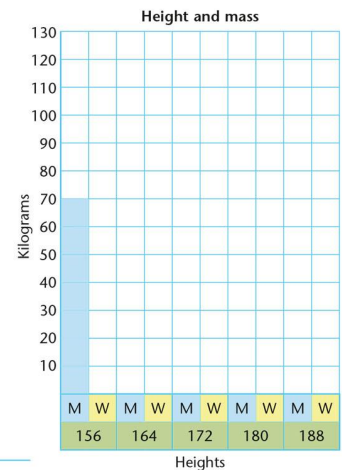
- a) 40+ men \_\_\_\_\_
- b) 15-year-old boys \_\_\_\_\_

**8** Which group had the highest use of the following forms of communication?

- a) Phone \_\_\_\_\_
- b) Messaging \_\_\_\_\_
- c) Email \_\_\_\_\_
- d) Texting \_\_\_\_\_

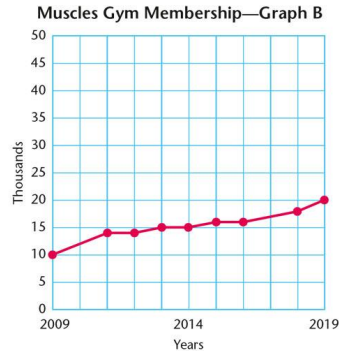
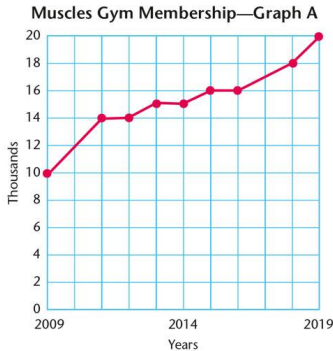
**9** The two-way table below shows data for the height and mass of a group of people. Make a side-by-side column graph of the data presented on the two-way table. Use blue for men and yellow for women on your graph. It has been started for you.

Height cm	156	164	172	180	188
Mass kg Men	70	80	95	100	105
Mass kg Women	60	65	70	80	85



- a) What is the average mass of women who were 180 cm tall? \_\_\_\_\_
- b) What is the difference in mass between men and women who measured 180 cm in height? \_\_\_\_\_
- c) Did the average masses of men and women all increase as the heights increased? \_\_\_\_\_

Data presented in graphs and charts can be misleading. It may be true but its appearance may give a false impression.



13 Compare the two graphs to see if the statements are true or false.

- a Graph A gives the impression that membership has increased considerably over 10 years.
- b Graph B shows the same data but the increase appears less significant.
- c Graph A indicates that gym membership is full.

True or false


14 Shannon noticed two articles about computers in the newspaper. Use all the information to answer the questions below.

**Computer Prices Tumble**

The manager of *Switched on Computers* said he has never seen prices so low: 'This graph shows that prices are falling rapidly'.



a By how much did the price actually fall in six months?

b Explain why this graph would not accurately represent the price of all computers.

c Explain why the word 'tumble' is misleading.

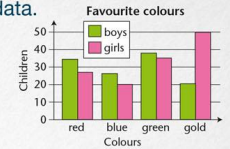
**Yobisha Deletes XL5100**

Ms Kim Kyoo of Yobisha Computers recently announced that the XL5100 computer would no longer be produced, as it is being replaced by the XL6100.

15 Challenge: Search newspapers, magazines or other media sources to find examples of misleading data. Explain your reasons for describing it as misleading.

A side-by-side column graph allows us to display a range of data. The side-by-side columns show how the data can be divided into different groups.

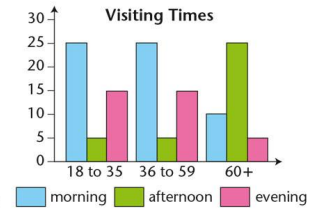
**EXAMPLE** The favourite colours of a sample group of children can be divided into boys and girls as well as colours, as can be seen in this sample graph.



11 Jungle Gyms are opening a new mobile gymnasium. They surveyed the local community to decide the best time to visit the town.

- The people in the survey were asked to:
- select their preferred time: morning, afternoon or evening
  - identify their age group.

Refer to the graph to answer the following questions.



- a Which time period was preferred by 18- to 35-year-olds? \_\_\_\_\_
- b Which time period was preferred by 36- to 59-year-olds? \_\_\_\_\_
- c Which time period was preferred by people over 60? \_\_\_\_\_

d Suggest reasons why the morning was preferred by the 18- to 35-year-olds.

- e Which time period was least preferred by the 18- to 35-year-olds? \_\_\_\_\_
- f Which time period was least preferred by 36- to 59-year-olds? \_\_\_\_\_
- g Which time period was least preferred by people over 60? \_\_\_\_\_

h Suggest reasons why the afternoon was preferred by those over 60.

- i Overall, how many people selected the morning as their preferred time? \_\_\_\_\_
- j Overall, how many people selected the afternoon as their preferred time? \_\_\_\_\_
- k Overall, how many people selected the evening as their preferred time? \_\_\_\_\_

l Using the data, suggest a suitable time for Jungle Gyms to visit the town.

Use this link to check your answers: <https://forms.gle/UEZsbsZ1MdN781DP6>

# LOST AT SEA!



A naval ship has just sent out a distress signal, their navigation system is malfunctioning and they're lost at sea!

The only way to bypass the navy's emergency protocol and reactivate their navigation system is to follow the clues and find the 4 security codes.

The navy are relying on you, so make sure you read all the instructions carefully to uncover the codes!

# LET'S GET STARTED!



- In this online file, you will have all of the instructions and puzzles needed to uncover 4 secret codes. Type your answers onto the slides, or move the numbers provided, so you can keep track of your answers
- Read all instructions carefully to solve the problems accurately and uncover the correct code
- When you finish a task, the code must be typed into a Google Form you can access here: <https://forms.gle/UEZsbsZ1MdN781DP6>
- If your code is incorrect you will be prompted to 'try again'. If your code is correct, continue to the next task!

## TASK ONE

### Supplies needed:

- ✓ Task 1 question sheet

### Directions:

- Solve all addition and subtraction algorithms on the question sheet
- Add all digits of each answer, one at a time, then record this number on the code line below. Do this for all questions
- Type your code into the Google Form with no spaces. If the code is correct, progress to the next task.

## TASK ONE QUESTION SHEET

1. $\begin{array}{r} 853 \\ 632 \\ + 327 \\ \hline \end{array}$	2. $\begin{array}{r} 529 \\ 430 \\ + 803 \\ \hline \end{array}$	3. $\begin{array}{r} 724 \\ 298 \\ + 769 \\ \hline \end{array}$
---	---	---

4. $\begin{array}{r} 629 \\ - 273 \\ \hline \end{array}$	5. $\begin{array}{r} 403 \\ - 138 \\ \hline \end{array}$	6. $\begin{array}{r} 550 \\ - 397 \\ \hline \end{array}$
--	--	--

CODE: \_\_\_\_\_

## TASK TWO

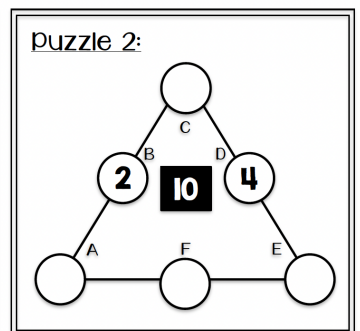
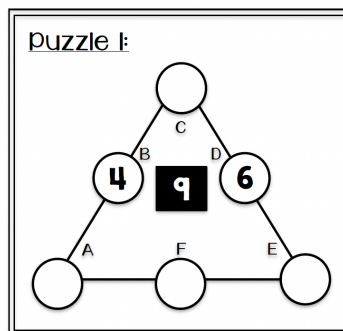
### Supplies needed:

- ✓ Task 2 question sheet

### Directions:

- Find the 4 missing numbers in each puzzle (drag the numbers across)
- The sum of each side of the triangle should equal the number in the centre
- Numbers must be between 1 and 6 and can only be used once
- 2 numbers have already been provided for you
- Type the number sequence (in ABC order) into the Google Form with no spaces. If the code is correct, progress to the next task.

## TASK TWO QUESTION SHEET



CODE: \_ 4 \_ 6 \_ \_ \_ 2 \_ 4 \_ \_

# TASK THREE

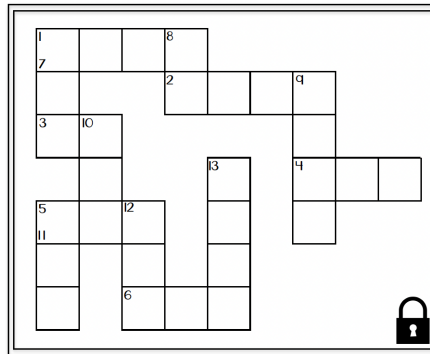
## Supplies needed:

- ✓ Task 3 question sheet

## Directions:

- Solve the addition and subtraction problems for the crossword
- When the crossword is complete, record the first digit of each answer on the code line below
- Type your code into the Google Form with no spaces. If the code is correct, progress to the next task.

# TASK THREE QUESTION SHEET



## Across:

- $965 + 4774 =$
- $5786 + 2648 =$
- $846 - 820 =$
- $1101 - 412 =$
- $536 + 346 =$
- $1457 - 667 =$

## Down:

- $1001 - 459 =$
- $54 + 44 =$
- $2467 + 2295 =$
- $2310 - 1632 =$
- $417 + 445 =$
- $652 - 395 =$
- $3365 + 4465 =$

CODE: \_\_\_\_\_

# TASK FOUR

## Supplies needed:

- ✓ Task 4 question sheet
- ✓ Task 4 decoder

## Directions:

- Solve each of the word problems
- On the decoder page, use the answers from the word problems to find the secret message
- Type the secret message (in capitals) into the Google Form with no spaces. If the code is correct, you have made it out!

# TASK FOUR QUESTION SHEET

## QUESTION 1

There are 139 students in Year 5 and double that amount in Year 6. How many students are there altogether?

## QUESTION 2

There are 237 people on the train when it leaves Central Station. When it gets to Town Hall, 75 people get off and 102 people get on. How many people are on the train as it departs Town Hall station?

## QUESTION 3

Robyn earns \$220 on Monday and Tuesday, and half that amount on Wednesday and Thursday. If she spends \$25 a day on food and travel, how much does she have left over?

## QUESTION 4

A family travelled 195km from Sydney to Goulburn, 358km from Goulburn to Albury and another 319km to arrive in Melbourne. If both parents took equal turns driving, how many km did each parent drive?

# TASK FOUR DECODER

## QUESTION 1 DECODER

0	1	2	3	4	5	6	7	8	9
B	O	J	U	W	A	S	W	D	R

QUESTION 1

## QUESTION 2 DECODER

0	1	2	3	4	5	6	7	8	9
K	I	Y	E	U	S	O	L	A	C

QUESTION 2

## QUESTION 3 DECODER

0	1	2	3	4	5	6	7	8	9
D	H	O	P	W	M	A	F	I	R

QUESTION 3

## QUESTION 4 DECODER

0	1	2	3	4	5	6	7	8	9
Y	A	V	I	E	B	T	C	M	G

QUESTION 4

CODE: \_\_\_\_\_

**Geography Week 3 Term 4 Monday 18 October**

**How do people manage spaces?**

Think about spaces in our community.

Shops, parks, beaches, houses, units, restaurants, buildings and halls.

Can you think of any more? (Write them on the line.)



---

The local government is in charge of planning in their local area.

To help with this they divide the area into **zones for land use**.

**Task:** Write the words from the word bank in their correct zones. Add some more if you can.

townhouse, supermarket, restaurant, factory, school, hospital, livestock,  
petrol station, home unit, sand hills, power station, church, granny flat, shop,  
park, office, house, mall, police station, swamp, market garden, apartment, poultry  
farm, movie theatre, warehouse, bungalow, wash, library, orchard.

<b>Land Use Type</b>	<b>Examples</b>
<b>Residential Zone</b> Where people live	
<b>Commercial Zone</b> Where people buy things	
<b>Industrial Zone</b> Where people work	
<b>Community Zone</b> Where people do activities	
<b>Vacant Zone</b> Places with nothing on them	
<b>Agricultural Zone</b> Farming	


**When planning a town there are rules about what zones can be near each other.**

1. The swamp cannot be beside any buildings because when it rains it sometimes floods the land. It can be nearby.
2. The soccer field can be beside the swamp because the flood won't affect it too much.
3. People like to live near the soccer field because they can use it for exercise and to walk their dogs.
4. People like their houses to be close to shops and restaurants.
5. People do not like to live near factories.
6. The factory owners like to be near shops and warehouses because they can easily store and sell their products.
7. The shop owners like to be near factories, warehouses and houses.
8. The factory owners like to be near restaurants so their workers have somewhere to go for lunch.
9. The restaurants' owners like to be near the soccer fields, factories and houses.

**Design a plan for your town in the box below. Use the 9 points above to guide your planning**

**You'll need to include the following:**

**Restaurants, a swamp, playing fields, warehouses, shops, factories and maybe a river.**

A large empty rectangular box with a black border, intended for the student to draw their town plan based on the provided guidelines.

Local news either online or in the form of newspapers and magazines are another great source of information!

Here is a good news story from local media about our very own corner of **The Great Southern Reef** and a wonderful creature that marine biologists and citizen scientists are bringing back from the threat of extinction.

**Please read the news article and answer the following questions**

Northern Beaches Review

September 16, 2021

[Sydney aquarium release endangered White's Seahorse into 'SeaBnBs' in Manly](#)

## Sydney aquarium release endangered White's Seahorse into 'SeaBnBs' in Manly

Allison Hore

Welcome to the 'neigh'bourhood! Dozens of endangered seahorses have just been released in Manly in an effort to save the iconic species.

On Thursday over 140 baby White's Seahorses, which were bred in the SEA LIFE Sydney Aquarium, were released off Delwood Beach and Little Manly as part of a threatened species recovery project.

The White's Seahorse, sometimes called the 'Sydney Seahorse,' is the only threatened seahorse species in Australia. Its numbers declined due to degradation of their harbour habitat.

Laura Simmons, Curator at SEA LIFE, said the team is "extremely proud" and they hope the seahorses will "go on to breed all around Sydney Harbour and the East Coast of Australia to help White's seahorse flourish."

"We're now in year two of a multi-year project that aims to recover the Endangered White's seahorse,"

"Today was a major milestone in the long-term, collaborative effort to recover and eventually de-list this species."

"If a swimmer comes upon a seahorse, they should keep a respectful distance and let the little guy (or gal) go about its business," she said.

"They are quite slow swimmers, so there is time to watch them, but do not disturb them. Being a protected and endangered species, it's actually against the law to touch or take them."

But scientists are hoping the new breeding program will bring the species back from the brink. The effort is a collaboration between SEA LIFE Sydney Aquarium, The NSW Department of Primary Industries Fisheries, Ocean Youth, the Gamay Rangers, the University of Technology Sydney and the Sydney Institute of Marine Science.

The captive breeding program and Seahorse Hotels initiative is providing hope for this iconic and mythical marine species and will hopefully contribute to their numbers increasing in the wild," said Dr David Harasti, Senior Marine Scientist with DPI Fisheries.

In June, the team installed 18 'Seahorse Hotels' or 'SeaBnBs' into the Sydney Harbour to house the babies.

The 'seahorse hotels' are essentially biodegradable cage structures. Over time, corals, sponges, algae and encrusting animals build up on the structure providing both protection from predators and a ready supply of food for the seahorses.

Eventually the artificial structure will disappear entirely, leaving behind a natural seahorse habitat.

The initiative is supported by funds raised by the Sydney Institute of Marine Sciences and Taylors wines. So far their 'SeaBnB' campaign has raised over \$25,000 of the campaign's \$100,000 goal.

Ms Simmons said the Seahorse Hotels are clearly marked so people know to avoid the area and can learn more about the recovery efforts. She encourages people to visit the SEA LIFE aquarium to learn more about the program.

"Avoid the seahorse hotel sites - they are habitats for so many creatures, including our seahorses...we want to let them thrive, undisturbed," she said.



### Questions

1. What is the pun (little joke/ play on words) the reporter is making in writing 'neigh'bourhood?
2. What exactly is a "Seahorse Hotel?"
3. Why are people encouraged to avoid the Seahorse Hotel area?
4. What is the author's purpose of writing this text (Inform/entertain/persuade)?

### Vocabulary

Please define what is meant by the following words and phrases:

**Iconic** \_\_\_\_\_

**Degradation of habitat** \_\_\_\_\_

**Back from the brink** \_\_\_\_\_

**Biodegradable** \_\_\_\_\_

### Extension Activities: Research

Research online one of the following collaborators on this project.

- SEA LIFE Sydney Aquarium
- Gamay Rangers
- Sydney Institute of Marine Science



(Below is an example of what I am looking for)

**Name of Organisation:** \_\_\_\_\_ Ocean Youth \_\_\_\_\_

**Purpose of organisation:** \_\_ Ocean Youth is an engaging program aimed at teens who want to get involved in the many aspects of marine conservation whilst developing valuable skills and meeting like-minded people. \_\_\_\_\_

**Location:** \_\_\_\_\_ SEA-LIFE Aquarium Sydney \_\_\_\_\_

**People Involved:** \_\_ High School aged Students, SEA LIFE Aquarium \_\_\_\_\_

### **Design and Create**

Design a poster/sign to let people know about the Seahorse Hotels.

What information would you include?

### **If you are out and about with your family...**

Compare your ideas for a sign with the one that has been placed at the top of the stairs behind Manly Pavilion at Federation Point!

**Email your work to [clare.compton@det.nsw.edu.au](mailto:clare.compton@det.nsw.edu.au)**