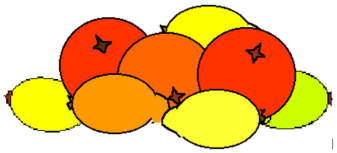
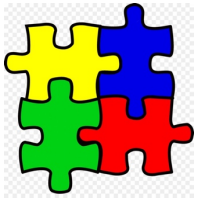
Framework for Learning from Home – Year 5 2021 Week 8

For some of the below activities you may need your parents help. Show each completed activity to your parents to check.

	Monday 30th August	Tuesday 31st August	Wednesday 1st Sept.	Thursday 2nd Sept.	Friday 3rd Sept.
Morning	**English** **Viewing/Reading**: have a look at the stimulus below 'Taking Flight' and write down 5 of your noticings. **Response/ Writing**: Using this story starter for 'Taking Flight, continue the story. Remember to use your 7 Steps for Writing strategies to make your story engaging. *It was a calm morning. There was but a slight ripple on the surface of the blue water, caused by a whispering westerly wind that whipped across the bay.* *A hungry heron hopped happily along a floating*	**English** **Reading:** **Library ZOOM Session** with Mr Philpott **10 am** – Classes **5D, 5P, 5L** and **5J** Join Zoom Meeting https://nsweducation.zoom.us/j/68251668283?pwd=WE00dUY4eEV3enFKeWJ4VGlnQXY1Zz09 **10:30 am** – Classes **5S, 5M** and **5K** Join Zoom Meeting https://nsweducation.zoom.us/j/68406478658?pwd=MHE4dCtOQ2MwV2ozNzdJT1BUN25iZz09	**English** **Viewing/Reading :** Read or listen to the news article of the day from https://www.kidsnews.com.au/ and complete the quick quiz related to it. Copy and paste the questions into your PowerPoint and complete them. **Response/Writing:** Answer these questions based on the stimulus 'Taking Flight'. 1. What can you see happening in the picture? 2. What is it the bird is looking for? 3. What do birds eat? 4. Do all birds eat the same things? 5. Where do you think this bird lives?	**English** **Viewing/Reading:** Read the poem "Artist Moon" from the August issue of Orbit school magazine. https://drive.google.com/file/d/1ftKwQvrk-Yj_XZsdwZA1KiSt_b6WMlyq/view?usp=sharing **Response/ Writing**: ***Read the poem aloud*** 1.What is the poem talking about? 2. What is the moon doing? 3. What human job has the moon been assigned? (Check the	**English** **Viewing/Reading:** Listen to the Squiz Kids daily podcast: https://www.squizkids.com.au/ **Response/ Writing**: Complete the following activities: 1 Write the name of the podcast inc. episode name/number. 2 Write down three facts you learnt from the podcast. 3 Who would you recommend this podcast to? Why? 4 Rate this podcast out of 10. Why have you given it this rating?

	log, waiting for its moment to strike. Any second now, it would sink its sharp sabre-like beak into the salty water, hoping to pluck an unsuspecting victim from beneath the surface.... **Spelling**: Complete one page of Unit 26 below and the online activities for this week's unit. www.soundwaveskids.com.au Access code: sit815 **Extension**: Please note, there is an extension word list. Write a paragraph with at least 10 words from this Extension list. Find the dictionary meaning of at least 10 words.	**Mr Poulos' Persuasive Writing Lesson: Week 8 Lesson Part 1:** Look at Mr Poulos' PowerPoint and video instructions. Think about the topic: **Topic: Smaller is Better**. Think of whether you are **FOR** or **AGAINST** this topic, brainstorm ideas you have around this topic.	6. Do you think it is eating just because it is hungry? 7. What makes this bird such a brilliant predator? **Spelling:** complete a task from the spelling grid using this week's soundwaves word list. **Mr Poulos' Persuasive Writing Lesson: Week 8 Lesson Part 2** Look at Mr Poulos' PowerPoint and video instructions. Think about the topic: **Smaller is Better** Write an exposition on the topic Smaller is Better. Don't forget to write 5 paragraphs an Introduction, 3 arguments and a conclusion. In your exposition focus on using personal pronoun words (refer to power point). Write your exposition in a word document and upload on Teams.	title for a clue.) 4. What is the language feature called when we assign human aspects to a nonhuman thing? It is an extended metaphor poem comparing the moon to an artist and it is now your turn to write a metaphor poem using the template below to help you. **Spelling:** complete a task from the spelling grid using this week's soundwaves word list.	**Soundwaves:** Complete one page of Unit 26 below and the online activities for this week's unit. www.soundwaveskids.com.au Access code: sit815 **Optional Extension Activity 'Taking Flight'** Can you draw a picture of what it is the bird has spotted underneath the surface of the water?
Break	Break	Break	Break	Break	Break

Middle	**Mathematics:** **Mass Focus** Complete the worksheet **Capacity, Volume and Mass.** **Optional Extension Activity: Oranges and Lemons**  On the table there is a pile of oranges and lemons that weighs exactly one kilogram. The oranges all weigh 130 grams. The lemons are also all the same weight, which is less than 23 of the weight of an orange. There are twice as many lemons as oranges in the pile. How many lemons are there and how much does each one weigh? **Wellbeing/P.E- Fitness**	**Mathematics:** Complete the **HotMaths** activities set by the teacher, including one HotSheet. **Optional Extension Activity: Watermelon competition**  Here are three watermelons. The one in the front of the picture weighs 7.35kg. The one on the left of the picture weighs 8.20kg. The one on the right of the picture weighs 6.45kg. In a melon-growing competition, a melon is awarded a point for each gram that it weighs. How many points does each melon gain? Can you explain how you worked this out?	**Mathematics:** **Mass Focus** Complete the worksheet **Graduated Scales.** Remember to then login to iMaths and look at unit MG3 and look at the consolidation and extension activities. **Optional Extension Activity: What's my Weight?**  The picture above shows four equal weights on one side of the scale and an apple on the other side. What can you say that is true about the apple and the weights? If the apple weighs 180*g*, how heavy must one weight be? If the apple weighed 375*g*, how heavy would one weight be? If the apple was a giant one and weighed a full kilo and the weights	**Mathematics:** Complete the **HotMaths** activities set by the teacher, including one HotSheet. **Optional Extension Activity: Terminating Decimals** *A terminating decimal is a decimal which has a finite number of decimal places, such as 0.25, 0.047, or 0.7734.* Take a look at the fractions below. $\frac{2}{3}$ $\frac{4}{5}$ $\frac{17}{50}$ $\frac{3}{16}$ $\frac{7}{12}$ $\frac{5}{8}$ $\frac{11}{14}$ $\frac{8}{15}$ Which ones do you think can be written as a terminating decimal? Once you've made your predictions, convert the fractions to decimals.	**Mathematics:** **Decimal Focus** Complete the worksheets **Decimal Addition and Subtraction** Remember to then login to iMaths and look at unit NA19 and NA21 and look at the consolidation and extension activities. **Languages**: Please complete any Languages work set by your Languages teacher on your Languages Teams account. **Creative Arts:** Following Book Week, we thought it would be nice for you to draw your favourite book character. You may use any medium you like. Add as much detail and colour as possible. You may like to draw Harry Potter with his scar and round glasses or one of the

	Aerobics Watch and follow along to the video below. Kids Morning Workout - Kids Daily Exercises Kids Morning Workout - Kids Daily Exercises - YouTube Grab some water and find a space free from any hazards when exercising. Have Fun!	**Languages**: please complete any Languages work set by your Languages teacher on your Languages Teams account. **Wellbeing/P.E- Fitness** **YOGA and Mindfulness with Cosmic Kids: Zen Den – Body Scan** Watch and follow along to the video below. https://www.youtube.com/watch?v=TCoUnEPeuQk Grab some water and find a space free from any hazards when exercising. Have Fun!	were each 250*g*, what would the scale look like? How do you know? Can you prove it? **Wellbeing Wednesday 12:00 – 2:00pm** **Try these activities with your family…** Turn off all devices for at least 2 hours  Do a jigsaw puzzle, sudoku or crossword 	**Wellbeing/P.E- Fitness** **DANCE** Head over to Just Dance and let out some energy by dancing to 'Happy' by Pharrell Williams https://www.youtube.com/watch?v=sJH4fUzoPKs Grab some water and find a space free from any hazards when exercising. Have Fun!	dragons from 'Wings of Fire'. These are just some suggestions. Make sure you label your drawing with the title of your book and the name of the character you have drawn as well.
Break	Break	Break	Break	Break	Break

After-noon	**Science: Gases Matter** List down 5 properties of gases on the **Gases Matter worksheet**. Next, complete '**Waterproof paper experiment**'. Make sure to write your prediction, observation and explanation on the sheet. You will also need to Conduct the '**Gas in the bag experiment'**using the given worksheet. **Read** the instructions carefully before conducting the experiment. **Write** down what you predict will happen (hypothesis). **Record** all data: times, photos, video etc. **Write** a detailed conclusion to explain the results – you may need to do some research. **OPTIONAL EXTENSION AEROGEL Watch the video on Inquisitive:** https://www.inquisitive.com/video/1785-aerogel  Aeorgel	**BTN:** Watch this week's BTN episode https://www.abc.net.au/btn/ Choose a story that is of particular interest to you and complete the story report sheet below.	Watch something that makes you laugh, then share this with a friend or family member  Do 15 minutes of stretching or yoga – eg Cosmic Yoga or Youtube Yoga for Kids https://www.youtube.com/user/cosmickidsyoga https://www.youtube.com/watch?v=X655B4ISakg 	**Geography**: Features of Asia Choose one Asian country of focus to study. These include: Japan, Singapore, Papua New Guinea, India, South Korea, Indonesia, Vietnam, Cambodia. You will need to research and use a variety of different maps (topographic, climate, population density) to investigate geographic features, population, climate and economy and currency. You should also include information about the culture (dress, food, traditions, music etc) of your country of choice You will need to present via a PowerPoint or iMovie in Week 10 of Term 3 via class Zoom lessons.	**Activities:** Complete an activity from the "activities and ideas for home for parents of primary learners" sheet on the back page of this booklet. **Catch-up:** Finish any unfinished tasks from Monday – Thursday **Optional Extension Activity: Continue working on ZOO STEM challenge competition:** **https://taronga.org.au/education/digital-programs-online-resources/enrichment-design-competition**

Taking Flight

Unit 26

v ve vase sleeve

List Words
grave
victim
solve
survive
advise
advice
lovable
creative
massive
positive
negative
adventure
discoveries

1 **Colour** the graphemes that represent v ve in the List Words.

2 **Go** to the List Words for Unit 26. **Count** the sounds and identify all the graphemes in each List Word.

3 **Write** any other letters that can represent v ve on the Grapheme Chart. **Write** one word example for each.

Grapheme Chart

grapheme	word

4 **Write** the words represented by the sound boxes. **Read** the meanings in the box. **Write** the words in the sentences according to their definitions and pronunciations.

★ **Advise** is a verb meaning *to give information* or *an explanation about what could be done*. **Advice** is a noun meaning *information* or *an explanation about what could be done*.

er ar or a e i o u | d dd | v ve | i_e y igh i ie | z zz s se _____

er ar or a e i o u | d dd | v ve | i_e y igh i ie | s ss s ce x kd c _____

The inventor gave us _____ on how to make our creation work.

He was also able to _____ us about how to varnish it to protect it.

5 **Write** contractions for the pairs of words, and pairs of words for the contractions.

Go to Helpful Hint 10.

we have _____ they have _____ they are _____

have not _____ we had _____ we would _____ we are _____

could've _____ _____ would've _____ _____ should've _____ _____

6 **Write** adjectives ending with the suffix **ive** to match the meanings.

★ The adjective-forming suffix **ive** can mean *relating to*, for example *inventive* means *relating to being an inventor*.

relating to creating _____ relating to a great mass _____

relating to possessing _____ relating to a plus position _____

relating to attracting _____ relating to a minus position _____

7 **Colour** words in the Word Search that have been built from the base words in the box. The Hidden Word has been built from a List Word.

solve – *yellow*	grave – *purple*
survive – *blue*	adventure – *red*
love – *green*	discover – *brown*

t	l	a	v	i	v	r	u	s	g	r	a	v	i	t	y	s
n	v	e	r	u	t	n	e	v	d	a	s	i	m	i	y	o
e	l	o	v	e	l	y	e	v	l	o	s	s	i	d	l	l
v	e	v	l	o	s	e	r	l	o	v	a	b	l	e	e	u
l	c	a	d	v	e	n	t	u	r	o	u	s	t	i	v	t
o	m	i	s	e	i	r	e	v	o	c	s	i	d	s	a	i
s	a	t	a	d	v	e	n	t	u	r	e	r	i	o	r	o
s	o	l	u	b	l	e	r	o	v	i	v	r	u	s	g	n

Hidden Word _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ n

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w wh u web whale queen

List Words

wheel
waste
worst
forward
weight
nowhere
quest
meanwhile
whistle
twilight
whether
wonderfully

1 **Colour** the graphemes that represent w wh u in the List Words.

2 **Go** to the List Words for Unit 26. **Count** the sounds and identify all the graphemes in each List Word.

3 **Write** any other letters that can represent w wh u on the Grapheme Chart. **Write** one word example for each.

4 **Write** contractions for the pairs of words in the brackets in the sentences.

Grapheme Chart

grapheme	word

This is the worst, wet weather (we have) _____ had this winter. It was wonderfully sunny a while ago. Now this rain has come out of nowhere. We (should have) _____ brought umbrellas. Meanwhile, since (we are) _____ getting wet, (let us) _____ wait in this shop. We (would have) _____ got drenched if (we had) _____ continued outside. I'll ring our parents to see if (they are) _____ able to come for us. If they (can not) _____, do you know whether (we would) _____ get a taxi at this twilight time of day? Do you have enough money to pay for a taxi because I (have not) _____?

Challenge

Write homophones to match the clues. **Colour** them in the Word Search to find the hidden message.

1. we will _ _ _ _
2. part of a car _ _ _ _ _
3. mark or swelling on the skin _ _ _ _

1. part of your body _ _ _ _ _
2. use unnecessarily _ _ _ _ _

1. stays until something happens _ _ _ _ _
2. masses of something _ _ _ _ _ _ _

1. we are _ _ _ _ _
2. what we do with our clothes _ _ _ _
3. a word that can start a question _ _ _ _

1. a huge sea mammal _ _ _ _ _
2. cry loudly _ _ _ _

1. another name for Earth _ _ _ _ _
2. twirled around _ _ _ _ _ _ _

1. whinge and ..... _ _ _ _ _
2. drink made from grapes _ _ _ _

1. opposite of strong _ _ _ _
2. seven days make a ..... _ _ _ _

1. a word to describe sunshine, rain, wind _ _ _ _ _ _ _ _
2. can often be replaced by the word *if* _ _ _ _ _ _ _

1. we would _ _ _ _
2. plant that is a pest _ _ _ _

1. used to make candles _ _ _
2. hits or smacks _ _ _ _ _ _

w	e	e	d	d	'	e	w	w	h	a	l	e	w	x
r	e	h	t	e	h	w	o	w	a	i	s	t	a	r
w	w	a	i	l	d	d	w	k	e	e	w	w	s	e
e	e	t	s	a	w	e	e	s	a	w	h	i	n	e
a	s	w	e	a	l	l	i	k	d	l	r	o	w	r
t	t	w	c	w	r	r	g	c	w	e	'	l	l	h
h	i	i	w	e	a	i	h	a	i	e	r	e	h	w
e	a	n	z	a	e	h	t	h	a	l	e	e	h	w
r	w	e	r	k	w	w	s	w	w	e	'	r	e	d

Hidden Words _

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SLW25

grave														
victim														
solve														
survive														
advise														
advice														
lovable														
creative														
massive														
positive														
negative														
adventure														
discoveries														
wheel														
waste														
worst														
forward														
weight														
nowhere														
quest														
meanwhile														
whistle														
twilight														
whether														
wonderfully														

SXW28

v ve

evidently

gravity

inadvisable

investigative

mischievous

privileged

rendezvous

severity

solvable

solvent

souvenir

sovereign

survival

vanquish

vengeance

verify

vigorous

villainous

vivacious

voluntary

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Word Work Grid

Complete each of the activities in this grid. Write the date you completed each activity on the line provided.

Syllable Sort Write your spelling words in order from the least amount of syllables to the most. Words with the same number of syllables should be in alphabetical order. Date:_____	**Odd One Out** For each of your spelling words, write four words. One is your spelling word, two relate to your spelling word and one is the odd word out that doesn't fit with the other two. Date:_____	**Wacky Words** On a sheet of paper, write your spelling words in different directions, filling up the whole sheet. Use different colours and types of writing for each word. Date:_____	**Word Detective** Write three clues about each of your spelling words. Ask someone to try to guess your spelling words using your clues. Date:_____	**Digging in the Dictionary** Use a dictionary to find the definition and write a sentence for each of your spelling words. Date:_____
Rhyming Wheels Think of as many words as you can that rhyme with your spelling words. Date:_____	**Alliteration** Write a sentence for each of your spelling words using as much alliteration as possible. Date:_____	**Sentence Smart** Write a sentence for each of your spelling words. Date:_____	**Story Time** Write a story using as many of your spelling words as you can. Underline each of your spelling words. Date:_____	**Sort Them Out** Sort the words on your spelling list into three different categories of your choice. Date:_____
Word Search Create your own word search using all the words on your spelling list. Date:_____	**Handwriting Hero** Write out your spelling words in your very best cursive hand writing. Date:_____	**Letter Lingo** Write a letter to a friend. Use as many spelling words in your letter as you can. Date:_____	**Words Within Words** Make a list of as many smaller words as you can find from your spelling list. Date:_____	**Code Breaker** Use the code guide to make a code for each of your spelling words. Date:_____

Writing an extended metaphor poem

The poem 'Artist Moon' uses an extended metaphor to compare the Moon to an artist. Write your own poem based on 'Artist Moon' that uses a new extended metaphor to describe the Moon. Start by working through the questions below.

1. In 'Artist Moon', the Moon is compared to an artist who changes the way things look. Brainstorm some other professions that create a piece of work. Some ideas have been provided.

chef	musician	designer	hairdresser

2. Which profession from the above list do you like the most? Now think about what it will help the Moon to create. Write a brief description.

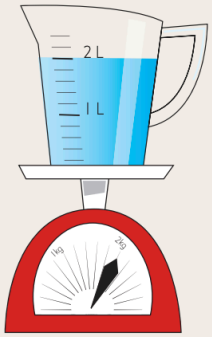
3. Describe what you see when the Moon makes its creation.

4. List any key words you could use in your poem that are related to your metaphor. For example, in 'Artist Moon,' the key words used are painting and night.

5. Use your ideas to draft your poem on a separate sheet of paper. Use the form and structure of 'Artist Moon' as your framework. Don't forget to give your poem a title.

MG2 Capacity, volume and mass

Capacity, **volume** and **mass** are related.
One millilitre of water has a volume of one cubic centimetre and a mass of one gram. Look carefully at the chart below to see other relationships.



Capacity (water)	Volume	Mass
1 mL	1 cm^3	1 g
10 mL	10 cm^3	10 g
100 mL	100 cm^3	100 g
200 mL	200 cm^3	200 g
300 mL	300 cm^3	300 g
400 mL	400 cm^3	400 g
500 mL	500 cm^3	500 g
600 mL	600 cm^3	600 g
700 mL	700 cm^3	700 g
800 mL	800 cm^3	800 g
900 mL	900 cm^3	900 g
1 Litre (1 L)	1000 cm^3	1 kilogram (1 kg)
10 L	10 000 cm^3	10 kg

Language reminder

Capacity: the amount a container can hold (use **mL**, **L**).
Volume: the amount of space a 3D shape occupies (use cm^3, m^3).
Mass: the amount of matter an object contains (use **mg**, **g**, **kg**, **t**).

Try this

1 Write the related capacity, volume or mass.

a The water in a one litre bottle has a mass of one kilogram. What is the volume of the bottle?

b What is the mass of the water in a full 10 litre bucket?

c Water from a full flask has a mass of 600 g. What is the capacity of the flask?

d What is the capacity of a bucket that can hold 9 kg of water?

e How heavy is the water in a 2 L bottle?

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2 Complete the table showing the relationship between capacity, volume and mass of water.

Capacity (water)	Volume	Mass
a	100 cm^3	100 g
b 250 mL	250 cm^3	
c 300 mL		300 g
d 500 mL	500 cm^3	
e 760 mL	760 cm^3	
f	1000 cm^3	1 kg
g 2 L		2 kg
h	25 000 cm^3	25 kg
i 60 L	60 000 cm^3	
j	3500 cm^3	3.5 kg

3 Write the corresponding volume, mass and capacity of these liquids.

a 

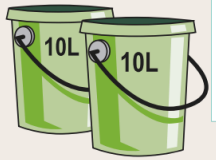
Volume:
Mass:
Capacity:

b 

Volume:
Mass:
Capacity:

c 

Volume:
Mass:
Capacity:

d 

Volume:
Mass:
Capacity:

e 

Volume:
Mass:
Capacity:

Challenge

A body of water: Scientists have worked out that humans are mostly water, about 70% in fact. That's $\frac{7}{10}$ of your mass made up of water. How much of your mass in kilograms is water?

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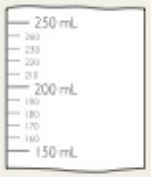
Maths Worksheet 2

MG3 Graduated scales

On a graduated scale there are times when not all of the graduations are numbered. To work out the value of each graduation, count the gaps between the numbered graduations, then divide.

50 mL ÷ 5 gaps, so each graduation is 10 mL.



Try this

1 Work out the value of each graduation and label the scale completely.

a

b

c

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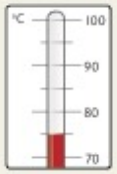
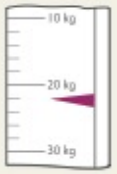
2 Work out the value of each graduation to help you write the measure shown on these scales.

a ____ mL



b ____ °C



c ____ kg

d ____ cm

e ____ km/h

f ____ g

g ____ s

h

i

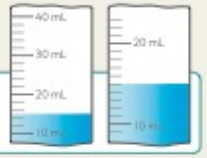
j

k

l

Challenge

More accurate: These two measuring cylinders were used to measure the dose of medicine for a child. Which one would give a more accurate measurement? Why?



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Topic MG3

Math worksheets Friday

NA19 Decimal addition to hundredths

When adding decimal fractions it is important to keep the decimal points lined up. This will help you add the ones, tenths and hundredths in their correct columns.

```
  6.21          1
  0.54        6.21
+ 1.3       + 0.54
            + 1.30
              8.05
```

Tip
Fill the empty places with zeros. This keeps the digits lined up.

To make sure your answer is reasonable, estimate your answer by rounding to the nearest whole number and add. You can usually do this mentally.

```
  6.21 round down        6
  0.54 round up          1
+ 1.3  round down      + 1
                         8  (estimate)
```

You can also use a calculator to check your answer.

Try this

1 Estimate, then write each sum vertically and add.

a 7.05 + 1.3 + 8.14 (estimate)

b 3.02 + 0.5 + 4.19 (estimate)

c 22.43 + 17.09 (estimate)

d 9.47 + 9.47 (estimate)

e 0.8 + 1.5 + 0.4 (estimate)

f 2.02 + 0.2 + 20 (estimate)

g 9.9 + 9.09 + 9.99 (estimate)

h 0.5 + 5 + 5.5 (estimate)

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What can cut down on homework pollution?

2 Solve the additions, then write the letter that matches each answer in the boxes below.

67.23 + 0.42 + 2.07	7.17 + 7.28 + 7.1	7.52 + 1.83 + 0.04	0.1 + 1.1 + 0.01	7.3 + 3.7
A	I	U	C	S

508.15 + 281.22	0.48 + 0.66 + 0.74	7.08 + 7.06	32.03 + 1.2 + 0.1	5.55 + 5.5
D	N	P	E	L

9.39	1.88	11.05	33.33	69.72	789.37	33.33	789.37

14.14	33.33	1.88	1.21	21.55	11.05	11

3 Our relay teams ran in the 4 x 100 m at the District Athletics Championships. Each competitor's time for their leg of the race is recorded below. What was the total time for each race?

Boys 4 x 100 m relay times	
Ben	15.01 s
Ethan	13.12 s
Austin	14.5 s
Harper	14.22 s

Girls 4 x 100 m relay times	
Olivia	14.48 s
Ella	13.56 s
Amber	16.28 s
Harmony	14.77 s

Challenge

Dream team: Choose the fastest four from the eight boys and girls above to make a mixed relay team. What would their 4 x 100 m time be?

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NA21 Decimal subtraction to hundredths

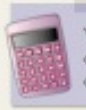
When you subtract decimal fractions, remember to keep the decimal points lined up vertically. This will make sure that you subtract the ones, tenths and hundredths in their correct columns.

$$\begin{array}{r} 86.46 \\ -\ 25.7 \end{array} \rightarrow \begin{array}{r} {\scriptstyle 5\ 14} \\ 86.46 \\ -\ 25.70 \\ \hline 60.76 \end{array}$$

Tip
Fill the empty places with zeros. This also keeps the digits lined up.

To make sure your answer is reasonable, estimate your answer by rounding to the nearest whole number and subtract. You can usually do this mentally.

$$\begin{array}{r} 86.46 \text{ round down} \\ -\ 25.70 \text{ round up} \end{array} \rightarrow \begin{array}{r} 86 \\ -\ 26 \\ \hline 60 \text{ (estimate)} \end{array}$$



You can also use a calculator to check your answer.

Try this

1 Estimate, then write each subtraction vertically and subtract.

a 56.41 − 3.29 (estimate)

b 77.25 − 72.6 (estimate)

c 22.43 − 17.09 (estimate)

d 16.7 − 11.46 (estimate)

e 9.9 − 9.47 (estimate)

f 518.41 − 8.41 (estimate)

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2 The table shows the life expectancy at birth from ten countries around the world. Work out the difference in life expectancy of the children born in the following pairs of countries.

a Monaco and Australia

b Australia and USA

c Australia and Chad

d China and India

e Australia and South Africa

f Monaco and Chad

Life expectancy at birth

Rank	Country	Years
1	Monaco	89.52
2	Japan	84.74
13	Australia	82.15
43	USA	79.68
99	China	75.41
153	Russia	70.47
163	India	68.13
191	South Africa	62.34
222	Afghanistan	50.87
224	Chad	49.81

Source: The World Factbook.

3 Use the **Boys 4 x 100 m relay times** on page 69 to answer these questions.

a Who ran faster, Ethan or Harper? What is the difference between their times?

b Who ran faster, Ben or Austin? What is the difference between their times?

4 Use the **Girls 4 x 100 m relay times** on page 69 to answer these questions.

a Sort the four competitor times from fastest to slowest.

b What is the difference between the time of the fastest girl in the relay team and slowest?

Challenge

What was the question? The answer to a decimal subtraction is 9.09. Write three possible questions that would give this answer.

ISBN 978 1 74135 180 4

What countries are there on the continent of Asia?

1 Colour and label each of the continents on the world map below. Add in the North Point, a legend and a title for the map.

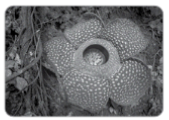
Legend

Asia is the largest continent in the world, covering approximately thirty percent of the earth's surface. Asia has the greatest population of all the continents. Over four billion people across more than forty countries live here. Asia has a variety of geographical features including mountains, plateaus, plains and deserts as well as freshwater and saltwater environments.

2 Write down the names of any Asian countries you have heard of or have visited.

3 Use the detective cards below to race your way around Asia.

Working in pairs, read the clues on each card to work out which Asian country it relates to. Find this country on the map of Asia on the following page. Label and colour this country.

Forty five billion pairs of chopsticks made each year.	Black sand desert	An island. Sits on the 80 degrees east longitude line.
An archipelago. Four main islands. More than 6,000 small islands.	Flag features a crescent and a star.	Tallest building in the world.
No chewing gum.	Hills made of chocolate.	Has the most rivers in the world.
Bengal tiger		Longest capital city name in the world.

4 Look at the list of Asian countries below. Use an atlas to help you find one country from each region and then colour and label it on the map.

Countries of Asia

North-east	South-east	South	Central	West		
China	Brunei	Afghanistan	Kazakhstan	Armenia		
Japan	Cambodia	Bangladesh	Kyrgyzstan	Azerbaijan		
Mongolia	Timor-Leste	Bhutan	Tajikistan	Bahrain		
North Korea	Indonesia	India	Turkmenistan	Cyprus		
South Korea	Laos	Iran	Uzbekistan	Georgia		
Taiwan	Malaysia	Maldives		Iraq		
Russia	Myanmar Philippines Singapore Thailand Vietnam	Nepal Pakistan Sri Lanka		Israel Jordan Kuwait Lebanon Oman	Palestine Qatar Saudia Arabia Syria	Turkey United Arab Emerites Yemen

5 Find some interesting facts about four countries in Asia and make detective cards for them. Share your card clues with a partner and see how quickly they can find the matching countries.

6

a Open Google Earth and find the Early Connectors section. (To do this, Select the Voyager icon then select Education, then scroll down to Explorers: Early Connectors).

Choose either Marco Polo, Ibn Battuta or Zheng He. Follow and investigate their exploration of parts of Asia.

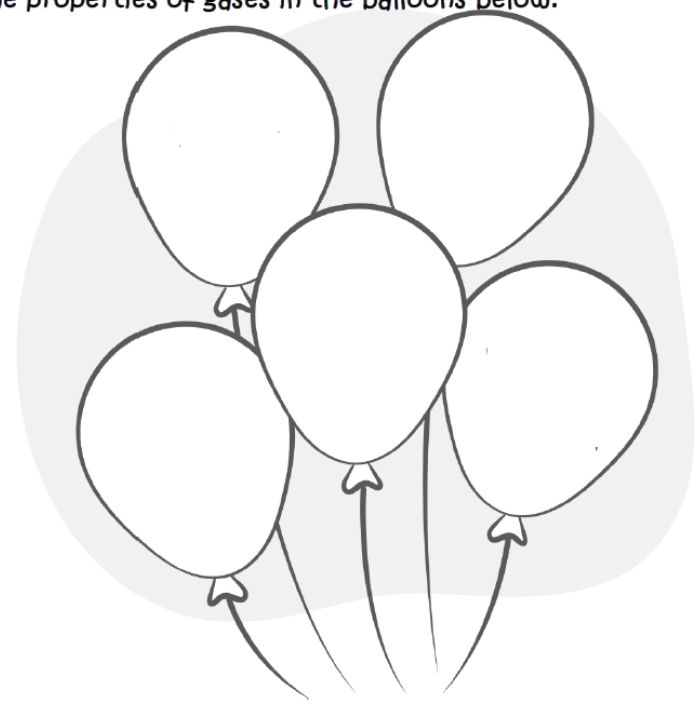
b Make your own fact file about their journey. Include geographical features and places they came across along the way.

Gases Matter

The Properties of Gases

Air is a mixture of gases, mostly nitrogen and oxygen. Like solids and liquids, gases are matter. We can identify gases by their properties and their behaviour.

List the properties of gases in the balloons below.



INVESTIGATION QUESTION 5

Waterproof Paper

Each group will need:

- 1 clear plastic cup
- tissue or a piece of paper towel
- sticky tape
- 1 large, deep bowl full of water (preferably clear)

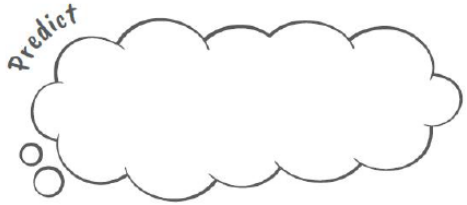
5 **Investigation: Waterproof Paper**

Step 1: Collect the materials listed on page 1

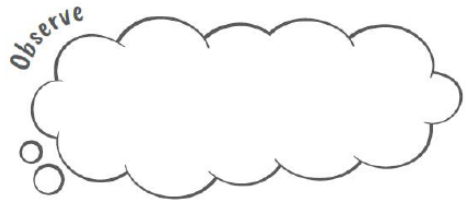
Step 2: Scrunch up the tissue/paper towel and wedge it into the bottom of the cup. You could use a small amount of tape to hold it in place.

Step 3: Hold the cup upside down over the water.

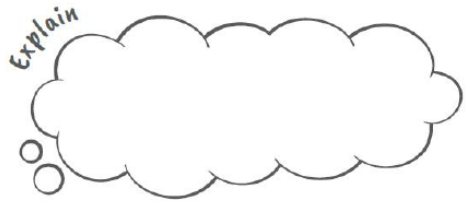
What will happen to the paper if you lower the cup down into the water? Write your **prediction**.



Step 4: Lower it quickly down to the bottom of the bowl. What happens to the paper? Write your **observation**.



Step 5: Lift the cup straight up out of the water. Dry around the edge, then feel the paper. Write an **explanation** for what you observed and felt.



What property of gases does this investigation demonstrate?

Step 6: Repeat steps 3–5. Holding the cup at the bottom, tilt it by lifting up one side until you hear a sound. What makes that sound? Discuss some ideas with a partner.

Experiment in a bag

INVESTIGATION QUESTION 6

A Gas Bag

You will need:

- 1 small ziplock bag (snack size)
- 1 cup of vinegar
- baking soda
- 1 teaspoon

- Read the instructions carefully before conducting the experiment.
- Write down what you predict will happen (hypothesis).
- Record all data: times, photos, video, etc.
- Write a detailed conclusion to explain the results – you may need to do some research.

Gas in a Bag Experiment

Aim

Will water temperature affect how fast the bag inflates?

Equipment

- One small (sandwich size) zip-lock bag
- Bicarbonate of soda
- Warm water, tap water, cold water
- Vinegar
- Measuring cup
- A tissue

Method

1. Put 1/4 cup of very cold, tap or very warm water into the bag.
2. Add 1/2 cup of vinegar to the water in the bag.
3. Put 3 teaspoons of bicarbonate of soda into the middle of the tissue.
4. Wrap the bicarbonate of soda up in the tissue by folding the tissue around it.
5. You will have to work fast now – partially zip the bag closed but leave enough space to add the bicarbonate of soda packet. Put the tissue with the bicarbonate of soda into the bag and quickly zip the bag completely closed. Start your timer as soon as the bag is zipped.
6. Put the bag down on the ground (outside) and step back. The bag will start to expand, and expand, and if all goes well…POP!

A fair test

Controls	**Variable**

Hypothesis (predict what you think will happen)

Results - data /observations (photos)

Conclusion

STORY REPORT

RATE THE STORY OUT OF 5 STARS

☆ ☆ ☆ ☆ ☆

REPORTERS OFTEN QUOTE OR INTERVIEW EXPERTS

NAME THE EXPERTS IN THIS STORY & SUMMARISE THEIR KEY POINTS

STORY TITLE:

STORY LENGTH:

PURPOSE OF THE STORY: *CIRCLE THE AUTHOR'S PURPOSE*

ENTERTAIN PERSUADE INFORM

EXPLAIN DESCRIBE

REPORTER:

STORY TOPIC:

STORIES CAN BE CATEGORISED INTO TOPICS OR SUBJECTS

DIGITAL TECHNOLOGY & STEM	NATURAL DISASTERS	ENVIRONMENTAL ISSUES
AUSTRALIAN HISTORY	WAR HISTORY	SUSTAINABILITY
ANIMALS	GLOBAL CITIZENSHIP	INDIGENOUS CULTURE
HEALTH & WELLBEING	SPACE / SCIENCE	BELIEFS & FESTIVALS

COLOUR THE BOX (OR BOXES) TO SHOW HOW THIS STORY COULD BE CATERGORISED

STORY SUMMARY:

A QUESTION I HAVE:

EMOTIONS:

STORIES CAN EVOKE EMOTION. HOW DID THIS STORY MAKE YOU FEEL?

DRAW AN EMOJI

VISUAL TEXT ELEMENTS USED IN THIS STORY: *FILL THE TABLE WITH A ✓ OR A ✗*

	INTERVIEWS		PHOTOGRAPHS
	STILL IMAGES		MOVING IMAGES
	CAPTIONS		CHARTS
	ANIMATIONS		DIAGRAMS
	TABLES		MAPS

TWO THINGS I LEARNT FROM THIS STORY:

1

2

BTN

BEHIND THE NEWS