


Framework for Learning from Home – Year 5 2021 Week 6


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

	Monday 16 th August	Tuesday 17 th August	Wednesday 18 th August	Thursday 19 th August	Friday 20 th August
Morning	<p>English</p> <p>Viewing/Reading: have a look at the stimulus below ‘The Sky Journey’ and write down 5 of your noticings.</p> <p>Response/ Writing: Using this story starter for ‘The Sky Journey’, continue the story about the flying ship. Remember to use your 7 Steps for Writing strategies to make your story engaging.</p> <p><i>It had seemed like an ordinary boat trip to Sam, as they made their way across the calm waters of the lake. He had become slightly concerned when they seemed to be picking up considerable speed, causing waves to crash</i></p>	<p>English</p> <p>Reading:</p> <p>Library ZOOM Session with Mr Philpott</p> <p>10 am – Classes 5D, 5P, 5L and 5J</p> <p>Join Zoom Meeting</p> <p>https://nsweducation.zoom.us/j/68251668283?pwd=WE00dUY4eEV3enFKeWJ4VGlnQXY1Zz09</p> <p>10:30 am – Classes 5S, 5M and 5K</p> <p>Join Zoom Meeting</p> <p>https://nsweducation.zoom.us/j/68406478658?pwd=ME4dCtOQ2MwV2ozNzdJT1BU N25iZz09</p>	<p>English</p> <p>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.</p> <p>Response/Writing: Answer these questions based on the stimulus ‘The Sky journey’.</p> <ol style="list-style-type: none"> 1. What colour are clouds? Why are some clouds different? 2. If we could all fly, how would the world be different? 3. What causes clouds? Can you make a cloud disappear? 4. Do clouds weigh 	<p>English</p> <p>Viewing/Reading: Read the text “The Glimmering Hand” from the August issue of Orbit school magazine.</p> <p>https://drive.google.com/file/d/1ftKwQvrk-Yj_XZsdwZA1KiSt_b6WMlyq/view?usp=sharing</p> <p>Response/ Writing: Think about how the above story made you feel. It was a scary story. Now it’s your turn to write a scary story make sure you use your Seven Steps to make it extra exciting!</p>	<p>English</p> <p>Viewing/Reading: Listen to the Squiz Kids daily podcast: https://www.squizkids.com.au/</p> <p>Response/ Writing: Complete the following activities:</p> <ol style="list-style-type: none"> 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?

	<p><i>into the shore. The engine coughed, spluttered and groaned, before giving an almighty roar, sending the boat hurtling over the water.</i></p> <p><i>Soon after, Sam could not believe his eyes as they plunged through the fluffy white clouds. Confused seagulls whizzed past his head, and they had almost collided with a jumbo jet full of passengers on their way to getting some sun in Spain.</i></p> <p><i>Sam felt exhilarated, but he had a sneaky feeling things were about to get even more exciting...</i></p> <p>Spelling: Complete one page of Unit 24 below and the online activities for this week's unit. www.soundwaveskids.com.au Access code: sit815</p> <p>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.</p>	<p>Mr Poulos' Persuasive Writing Lesson: Week 5 Lesson 2A</p> <p>Look at Mr Poulos' PowerPoint and video instructions.</p> <p>Think about the topic:</p> <p>Exercise is Important</p> <p>Complete both of the activities and upload on Teams as a word document.</p>	<p>anything? Can you measure a cloud?</p> <p>5. Design your own flying machine, create a set of instructions about how to build it, or an explanation about how it works.</p> <p>Spelling: complete a task from the spelling grid using this week's soundwaves word list.</p> <p>Mr Poulos' Persuasive Writing Lesson: Week 5 Lesson 2B</p> <p>Look at Mr Poulos' PowerPoint and video instructions.</p> <p>Think about the topic:</p> <p>Exercise is Important</p> <p>Write an exposition on the topic. Include a rhetorical question in your introduction.</p> <p>Write 3 strong reasons supporting your arguments by providing evidence or examples.</p> <p>Include a concluding paragraph.</p> <p>Upload your work on Teams as a word document.</p>	<p>Spelling: complete a task from the spelling grid using this week's soundwaves word list.</p>	<p>Soundwaves:</p> <p>Complete one page of Unit 24 below and the online activities for this week's unit. www.soundwaveskids.com.au Access code: sit815</p> <p>Optional Extension Activity 'The Sky Journey'</p> <p>Write a journal entry about life on board the vessel.</p>
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Break	Break	Break	Break	Break	Break
Middle	<p>Mathematics:</p> <p>Division Focus</p> <p>Complete the worksheet Division 3 digit ÷ 1 digit.</p> <p>Optional Extension Activity: Zoo Mathematics</p> <p>You are required to plan a trip to the zoo. Please complete Question A today.</p> <p>Wellbeing/P.E- Fitness GetActive@Home</p> <p>Collect this equipment from around the house before you start this fitness activity.</p> <p>6 pairs of socks rolled over into balls or similar soft objects</p> <p>1 Washing basket or bucket</p> <p>Tennis racquet or Squash racquet or something</p>	<p>Mathematics:</p> <p>Complete the HotMaths activities set by the teacher, including one HotSheet.</p> <p>Optional Extension Activity: Zoo Mathematics</p> <p>You are required to plan a trip to the zoo. Please complete Question B today.</p> <p>Languages: please complete any Languages work set by your Languages teacher on your Languages Teams account.</p> <p>Wellbeing/P.E- Fitness YOGA</p> <p>Watch and follow along to</p>	<p>Mathematics:</p> <p>Division Focus</p> <p>Complete the worksheet Division with zeros.</p> <p>Optional Extension Activity: Zoo Mathematics</p> <p>You are required to plan a trip to the zoo. Please complete Question C today.</p> <p>Wellbeing Wednesday 12:00 – 2:00pm</p> <p>Try these activities with your family...</p> <ol style="list-style-type: none"> 1. Play a card game. 2. Play a board game. 3. Go for a short outdoor walk with an adult. 4. Play some 	<p>Mathematics:</p> <p>Complete the HotMaths activities set by the teacher, including one HotSheet.</p> <p>Optional Extension Activity: Zoo Mathematics</p> <p>You are required to plan a trip to the zoo. Please complete Question D today.</p> <p>Wellbeing/P.E- Fitness DANCE</p> <p>Listen to this song on YouTube and create a series of 4-5 dance moves to then create a dance routine. Get your family to join in and follow along with your dance routine.</p> <p>https://www.youtube.com/watch?v=yss0SGzr</p>	<p>Mathematics:</p> <p>Division Focus</p> <p>Complete the worksheet Division with remainders.</p> <p>Optional Extension Activity: Zoo Mathematics</p> <p>You are required to plan a trip to the zoo. Please complete the Extension Question today.</p> <p>Languages:</p> <p>Please complete any Languages work set by your Languages teacher on your Languages Teams account.</p> <p>Creative Arts: Vanishing Point-</p> <p>Please watch the video below to see</p>

	<p>similar</p> <p>An Activity log book or paper and pencil</p> <p>Water bottle</p> <p>Please improvise if you don't have exactly what is required.</p> <p>Watch video below and start activity.</p> <p>https://vimeo.com/422310325</p> <p>Find a space free from any hazards when exercising. Have Fun!</p>	<p>the video below.</p> <p>https://www.youtube.com/watch?v=X655B4ISa_kg</p> <p>Grab some water and find a space free from any hazards when exercising. Have Fun!</p>	<p>handball or other ball game.</p> <p>5. Play tag or hide and seek with an adult or sibling.</p> <p>Turn off all devices for at least 2 hours</p> 	<p>UIY</p> <p>Grab some water and find a space free from any hazards when exercising. Have Fun!</p>	<p>what a vanishing point is when creating an artwork. Things in the distance become smaller.</p> <p>https://www.youtube.com/watch?v=gEVI1ZWLp4g</p> <p>Now create your own artwork. Draw a road just like in the example in the video. You can create your own scene around the road. Just like the video. Have fun and be create.</p>
Break	Break	Break	Break	Break	Break
After-noon	<p>Science:</p> <p>Watch Change of State Matter Physics FuseSchool - YouTube</p> <p>Read and complete Changing States of Matter</p> <p>Conduct a science experiment: Solid or liquid. Follow the steps to</p>	<p>BTN: Watch this week's BTN episode https://www.abc.net.au/btn/</p> <p>Choose a story that is of particular interest to you and complete the story report sheet below.</p>	<p>Complete a mindfulness guided meditation. You can access these on Smiling Mind or Peaceful Kids</p> <p>https://www.smilingmind.com.au/</p> <p>https://www.peacefulkids.com.au/</p>	<p>Geography: Features of Asia</p> <p><u>Name these geographical features of Asia and their country.</u></p> <p>a. The highest mountain in the world.</p> <p>b. The third longest river in the world.</p> <p>c. The world's deepest freshwater lake.</p> <p>d. The lowest point in the</p>	<p>Activities:</p> <p>Complete an activity from the "activities and ideas for home for parents of primary learners" sheet on the back page of this booklet.</p> <p>Catch-up:</p> <p>Finish any unfinished tasks from Monday – Thursday</p>

	<p>make this unusual substance. Take a video of your science experiment and record the results of your experiment. Upload the video and your experiment result to Teams</p>			<p>world.</p> <p>e. The tallest volcano in Asia.</p> <p>f. The largest bay in the world (by area).</p> <p>Read the Ebook Komodo Island on Inquisitive under heading “Geography of Asia”</p> <p>http://inq.co/class/spz</p> <p>Code: 3297</p> <p>Write a ‘blog’ which includes a set of travel tips for someone planning to visit Komodo Island. Include details such as; weather to expect, safety tips, points of interest.</p> <p>Answer these questions: What is:</p> <ul style="list-style-type: none"> • Australasia? • Oceania? • Micronesia? • Polynesia? 	<p>Optional Extension Activity: Continue working on ZOO STEM challenge competition:</p> <p>https://taronga.org.au/education/digital-programs-online-resources/enrichment-design-competition</p>
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Monday: The Sky Journey



Unit 24



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List Words

omit
event
vital
subject
amount
notice
arrest
terror
prompt
attempt
dentist
customer
transfer
transport
telecast
telephone
internet
interesting
attendance
taught
privately
scientist
systematic
equivalent
committee

Grapheme Chart

grapheme	word

- 1 **Colour** the graphemes that represent in the List Words.
- 2 **Go** to the List Words for Unit 24. **Count** the sounds and identify all the graphemes in each List Word.
- 3 **Write** any other letters that can represent on the Grapheme Chart. **Write** one word example for each.
- 4 **Cross** out the words where you hear .

Answer the question that is left.

Would omitting wrestling with a vital thief on the kitchen floor while whistling for the dog and listening for the telephone siren of a dentist arresting police car be noticeably considered privately an amazing event adventure? _____

- 5 **Write** List Words with in the following positions in the words.

1st, 3rd _____ 1st, 8th _____
 2nd, 6th _____ 4th, 7th _____ 2nd _____
 4th, 8th _____ 5th, 8th _____ 10th _____

- 6 **Circle** the base words from which these words have been built.

vitality dentistry noticeably eventually systematic attempting
 revitalise privately unnoticed uneventful committed disinterested
 terrrise prompted amounted attendance committee transportation
 arresting omitting subjective unattended commitment unaccustomed

- 7 **Write** the base words from which these words have been built.

terrify _____ attendant _____ telecasting _____
 terrific _____ scientific _____ telephonist _____
 noticing _____ customary _____ transferred _____
 omitting _____ impromptu _____ privatisation _____
 systemic _____ equivalence _____ transportable _____

- 8 **Write** words built from the words in the brackets to finish the sentences.

The scientist _____ to tell the dentist he would not be attending his appointment. **(omit)**

People were still _____ the graffiti on the wall which was quite _____ even after the wall had been repainted. **(notice)**

The owner thought he had _____ his dog to stop barking unnecessarily but his attempts failed.

His neighbour telephoned to tell him he would have to start _____ the dog again. **(teach)**

The chairperson of the committee was _____ to a new position in another city. **(transfer)**

9 Colour code one word part from each column to form List Words.

sub	or	co	en	net	_____
den	ttempt	sci	vate	cast	_____
e	ject	pri	tten	fist	_____
a	fer	a	mmitt	ly	_____
trans	tist	in	e	ee	_____
terr	vent	tel	ter	dance	_____

10 Write the words from the boxes that begin with the prefix **trans** or are built from the Greek root **tele** to match the meanings.

★ The prefix **trans** means *across* or *beyond*. The Greek root **tele** means *afar*.

to move a living thing **across** and **plant** it in another place _____

to **carry** something **across** from one place to another _____

to change words **across** from one language to another language _____
 able to be seen through and **beyond** _____

a device to receive **visual** information from **afar** _____

broadcast information by television from **afar** _____

instrument for sending **speech** to a **far** away place _____

instrument for **seeing** things in the **far** distance _____

11 Colour the best meaning for the first word in each group. Use your dictionary to help.

omit (v): remember, exclude, stop **vital (adj):** important, busy, trivial **prompt (adj):** punctual, late, acting
attempt (v): achieve, offer, try **terror (n):** sadness, fear, guilt **subject (n):** topic, answer, question
systematic (adj): organised, ready, haphazard **equivalent (adj):** nearly, matching, uneven

Challenge

Use the number code below the Crossword to start. Write the letters into the code as you decode them. The Crossword answers are occupations, for example a doctor or pilot.

10 23 15 11 25 22 11

11 23 16 13 15 25 16 25 6 15

16 26 23 6 15 23 9

16 13 23 7 25 27 11

6 9 11 25 22 11

2 23 16 13 6 15 25 16

6 6 16 16 12 24 15 11 6 15 11

1 6 9 2 23 9

26 9 10 25 15 11

12 5 25 16

22 23 16 9 23 11 6 9 21

9 75 22

11 11 23 16 9 23 11 6 9 21

9 15 11

5 13 12 11 12 8 9 6 5 13 23 9

4 23 15 11 6 15 11

8 15 23 8

25 25 6

16 13 23 7 25 27 11

9 9 9

6 24 11 13 12 9

Code

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
	x				a	z			t			v	n		w	k	q	b		s	e		i		



translate
transparent
transplant
transport

telescope
television
telephone
telecast

SLW23



omit																						
event																						
vital																						
subject																						
amount																						
notice																						
arrest																						
terror																						
prompt																						
attempt																						
dentist																						
customer																						
transfer																						
transport																						
telecast																						
telephone																						
internet																						
interesting																						
attendance																						
taught																						
privately																						
scientist																						
systematic																						
equivalent																						
committee																						

SXW26



adoptive																						
alternative																						
attentive																						
convenient																						
dentistry																						
eliminated																						
noticeable																						
omitted																						
orchestral																						
parliamentary																						
persistence																						
practicality																						
secretarial																						
separatist																						
syndicate																						
telephonist																						
terrific																						
theatre																						
trialled																						
vitality																						

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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.

<p style="text-align: center;">Syllable Sort</p> <p>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.</p> <p>Date: _____</p>	<p style="text-align: center;">Odd One Out</p> <p>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.</p> <p>Date: _____</p>	<p style="text-align: center;">Wacky Words</p> <p>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.</p> <p>Date: _____</p>	<p style="text-align: center;">Word Detective</p> <p>Write three clues about each of your spelling words. Ask someone to try to guess your spelling words using your clues.</p> <p>Date: _____</p>	<p style="text-align: center;">Digging in the Dictionary</p> <p>Use a dictionary to find the definition and write a sentence for each of your spelling words.</p> <p>Date: _____</p>
<p style="text-align: center;">Rhyming Wheels</p> <p>Think of as many words as you can that rhyme with your spelling words.</p> <p>Date: _____</p>	<p style="text-align: center;">Alliteration</p> <p>Write a sentence for each of your spelling words using as much alliteration as possible.</p> <p>Date: _____</p>	<p style="text-align: center;">Sentence Smart</p> <p>Write a sentence for each of your spelling words.</p> <p>Date: _____</p>	<p style="text-align: center;">Story Time</p> <p>Write a story using as many of your spelling words as you can. Underline each of your spelling words.</p> <p>Date: _____</p>	<p style="text-align: center;">Sort Them Out</p> <p>Sort the words on your spelling list into three different categories of your choice.</p> <p>Date: _____</p>
<p style="text-align: center;">Word Search</p> <p>Create your own word search using all the words on your spelling list.</p> <p>Date: _____</p>	<p style="text-align: center;">Handwriting Hero</p> <p>Write out your spelling words in your very best cursive hand writing.</p> <p>Date: _____</p>	<p style="text-align: center;">Letter Lingo</p> <p>Write a letter to a friend. Use as many spelling words in your letter as you can.</p> <p>Date: _____</p>	<p style="text-align: center;">Words Within Words</p> <p>Make a list of as many smaller words as you can find from your spelling list.</p> <p>Date: _____</p>	<p style="text-align: center;">Code Breaker</p> <p>Use the code guide to make a code for each of your spelling words.</p> <p>Date: _____</p>



NA9 Division 3-digit ÷ 1-digit

Division with no regrouping, some remainders

Sometimes when you divide, the number does not divide equally. The number left over is called the remainder. Two division strategies are set out below. Follow the steps carefully and notice how the remainder is written.



1. Split the dividend into parts

$$\begin{aligned} 846 \div 4 &= (800 \div 4) + (40 \div 4) + (6 \div 4) \\ &= 200 + 10 + 1 \text{ r } 2 \\ &= 211 \text{ r } 2 \end{aligned}$$

2. Written method – short division

Division without a remainder

$$\begin{array}{r} 413 \\ 2 \overline{) 826} \end{array}$$

Think:

- share 8 hundreds ($8 \div 2 = 4$), record 4 hundreds
- share 2 tens ($2 \div 2 = 1$), record 1 ten
- share 6 ones ($6 \div 2 = 3$), record 3 ones
- no ones remain.

Division with a remainder

$$\begin{array}{r} 232 \text{ r } 2 \\ 3 \overline{) 698} \end{array}$$

Think:

- share 6 hundreds ($6 \div 3 = 2$), record 2 hundreds
- share 9 tens ($9 \div 3 = 3$), record 3 tens
- share 8 ones ($8 \div 3 = 2$), record 2 ones
- remainder is 2, record as r 2.

3. Use your calculator



Try this

1 Split the dividend into parts, divide, then add.

a $647 \div 2$

$$\begin{aligned} (600 \div 2) + (40 \div 2) + (7 \div 2) \\ = 300 + 20 + 3 \text{ r } 1 \\ = \end{aligned}$$

b $965 \div 3$

2 Use the written method for short division.

a

$$\begin{array}{r} \\ 4 \overline{) 845} \end{array}$$

b

$$\begin{array}{r} \\ 2 \overline{) 268} \end{array}$$

c

$$\begin{array}{r} \\ 3 \overline{) 968} \end{array}$$

d

$$\begin{array}{r} \\ 2 \overline{) 485} \end{array}$$

Which Arab invented flavoured chips?

3 To find out, solve each division, giving remainders where necessary. Write the letter that matches each answer in the correct box below.



$936 \div 3$ L	$245 \div 2$ I	$846 \div 4$ T	
$404 \div 2$ E	$990 \div 3$ R	$334 \div 3$ A	$487 \div 4$ N
$668 \div 2$ U	$608 \div 3$ G	$800 \div 4$ V	$289 \div 2$ S

144 r1	334	312	211 r2	111 r1	121 r3	200	122 r1	121 r3	202	202 r2	111 r1	330

Problem solving task

Destination divisions: Use the space provided in *iMaths 5 Tracker Book* to work out your answers.

- a Four airplane tickets cost \$848. What is the cost per ticket?
- b 396 airline meals were packed into three trolleys. How many meals in each trolley?
- c Mum wants to read a 505 page book on her five-day holiday. How many pages will she need to read each day?

Challenge

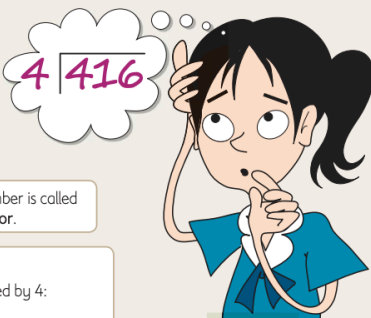
Anyone for leftovers? You can tell that remainders are needed when you divide by two because the dividend is not an even number. For example, $2 \overline{) 523}$ will have a remainder.

Write five divisions that will have a remainder when divided by 2. Explain how you can tell if there will be remainders when you divide by 5.



NA10 Division with zeros

When you have to find the answer to a division number sentence, it is often easier to split it into parts.



Find the answer to this division: $416 \div 4$

This number is called the **dividend**.

This number is called the **divisor**.

1. Split the dividend into parts

Split the dividend into parts that can be divided by 4:

$$416 = 400 + 16$$

Then, divide each part by 4, and add.

$$\begin{aligned} 416 \div 4 &= (400 \div 4) + (16 \div 4) \\ &= 100 + 4 \\ &= 104 \end{aligned}$$

2. Written method – short division

$$\begin{array}{r} 207 \\ 4 \overline{) 828} \end{array}$$

Think:

- share the hundreds ($8 \div 4 = 2$), record 2
- share the tens ($2 \div 4 = 0 \text{ r } 2$), record 0 r 2
- share the ones ($8 \div 4 = 2$), record 7.

Tip

To check your answer is correct, estimate your answer. Round the dividend and then divide.

Try this

1 Find the answer to each of these.

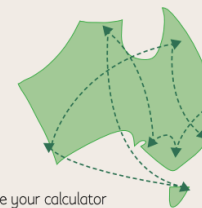
a $621 \div 3$

b $535 \div 5$



You can check your answer with a calculator.

If a man was born in Brisbane, went to school in Melbourne, studied in Adelaide, worked in Darwin, married in Hobart, moved to Perth, retired in Cairns and died in Sydney, what is he?



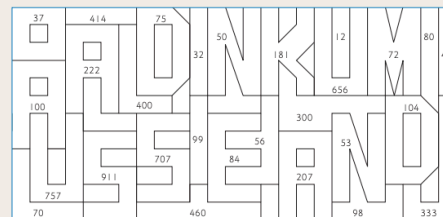
2 To solve the riddle, find the answer to each of these divisions, then use your calculator to check the answer. Find the answers in the shapes below and colour them in.

a $414 \div 2$

b $520 \div 5$

c $375 \div 5$

d $336 \div 4$



3 A storeman has 630 bricks to deliver.

a He has to stack them onto 7 pallets. How many bricks will be on each pallet?

b One of the pallets is broken. How many bricks will he have to stack on each of the 6 pallets?

Challenge

Lottery share: How much will each winner get if a \$1440 prize has to be shared among –

- | | | |
|------------|------------|------------|
| 2 winners? | 3 winners? | 4 winners? |
| 5 winners? | 6 winners? | 9 winners? |



NA11 Division with remainders



Sometimes when you divide, the number does not divide equally. The leftover number is called the **remainder**. Follow the steps carefully and notice how the remainder is written.

Find the answer to this division: $178 \div 4$

Tip

To check your answer is correct, estimate your answer. Round the dividend and then divide.

1. Split the dividend into parts

Split the dividend into parts that can easily be divided by 4:

$$178 = 160 + 16 \text{ and } 2 \text{ ones remaining}$$

Then, divide each of the two parts by 4, and add.

$$\begin{aligned} 178 \div 4 &= (160 \div 4) + (16 \div 4) \text{ (2 ones remaining)} \\ &= 40 + 4 \quad \text{r } 2 \\ &= 44 \text{ r } 2 \end{aligned}$$

2. Written method – short division

$$\begin{array}{r} 44 \text{ r } 2 \\ 4 \overline{)178} \end{array}$$

Think:

- share the hundreds ($1 \div 4 = 0 \text{ r } 1$), record $0 \text{ r } 1$
- share the tens ($17 \div 4 = 4 \text{ r } 1$), record $4 \text{ r } 1$
- share the ones ($18 \div 4 = 4 \text{ r } 2$), record $4 \text{ r } 2$.

Try this

1 Find the answer to each of these, then use your calculator to check the answer.

a $619 \div 4$

b $7648 \div 7$

c $675 \div 2$

What starts with T, ends with T and has T in it?

2 To answer the riddle, solve each division, giving remainders where necessary. Write the letter that matches each answer in the correct box below.

a (A) b (P) c (E)

$$6 \overline{)878} \quad 5 \overline{)571} \quad 3 \overline{)7085}$$

d (O) e (T)

$$4 \overline{)1263} \quad 7 \overline{)2260}$$

146 r2	322 r6	2361 r2	146 r2	114 r1	315 r3	322 r6
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

3 There are 1216 students in the school. Can they be divided equally into 4 groups, 6 groups, 8 groups or 9 groups?

4 Grandma has made some sweets for the school fete. She made 571 chocolate-coated almonds. She wants to wrap them into packs of 5.

- a How many packs of chocolate-coated almonds can she make? b How many chocolate-coated almonds will be left over?



Problem solving task

Fives and fours: Which of these numbers can be divided exactly by 5, and when it is divided by 4, the remainder is 2?
 416 415 405 450
 Use the space provided in iMaths 5 Tracker Book to work out your answer.



Challenge

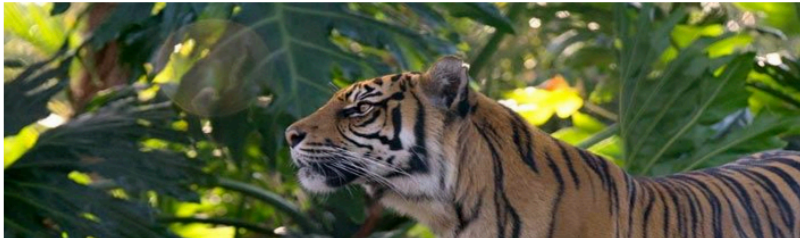
Reverse remainder: A number divided by 7 gives the answer $597 \text{ r } 4$. What is the number?



Maths Optional Extension: Zoo Maths

STAGE 3 ZOO MATHEMATICS

Learning resource



a) Ticket prices

Go to the [Taronga Western Plains Zoo Dubbo](https://taronga.org.au/dubbo-zoo) website and investigate the cost of going to the zoo with your family or a group of friends. **Record** the various packages available and **compare** the cost of family packages with purchasing individual tickets for each family member. **Compare** the cost of purchasing tickets online with buying them at the zoo.

b) Transport costs and times

Organise your day by investigating your public transport options to and from the zoo from your local bus and/or train station (assume that you have to arrive at the zoo by 9am and leave by 4pm).

c) Planning your food for the day

View the lunch menu for the Midway Café on the next page. Make your selection for lunch, from the menu and **record** it in the table below. Now record the orders and cost of **three other** friends or family members meals in the table below.

Dictation Would \$100 be enough to cover the bill?

II. What change would you receive from \$100.00?

	Menu item chosen	Cost
Person 1		
Person 2		
Person 3		
Person 4		

Total cost: \$ _____

Change from \$100.00: \$ _____

III. Adjust your choices given that you have \$50 between the four of you.

d) Planning your day at the zoo

Using a [map of the zoo](#) and the zoo timetable (on the right-hand side of the map), write a proposed itinerary for the day if you and your family/friends are arriving when the zoo opens at 9am and departing at 4pm.

EXTENSION ACTIVITY: Using the scale on the map estimate the distance you will walk when you visit the zoo.

TARONGA WESTERN PLAINS ZOO WEBSITE:

https://taronga.org.au/dubbo-zoo?gclid=EAlalQobChMItMmkh9nc5wIVThSPCh1s_A4eEAAYASAAEgJAz_D_BwE

ZOO FOOD MENU:

LUNCH

Served daily from 11:30am – 2:30pm

TO SHARE

BOWL OF CHIPS Served with aioli	\$7.00	CHICKEN BURGER Grilled chicken breast on a potato bun with bacon, pineapple, mixed leaves, sliced tomato & aioli, served with a side of potato fries	\$18.90
BOWL OF SWEET POTATO CHIPS Sweet potato chips served with aioli	\$9.00	STEAK SANDWICH Grass fed scotch fillet with caramelized onion, Swiss cheese, lettuce, tomato, beetroot on toasted sourdough served with chips	\$19.50
BRUSCHETTA Toasted sourdough smothered with basil pesto, grilled haloumi and grilled capsicum salad	\$14.50	QUINOA CHICKEN BURRITO With avocado, corn salsa, red quinoa, sour cream, chilli & leafy greens Served with chips	\$17.90
CRISPY CHICKEN WINGS Tossed in smokey BBQ sauce served with truffle aioli	\$15.90		

MEALS

SOUP Soup of the day with toasted sourdough	\$12.00		
ORECCHIETTE PASTA Chorizo, salami, basil, extra virgin olive oil and fresh tomato tossed in orecchiette pasta	\$17.50		
CRISPY WHITING Served with salad, chips and aioli	\$14.50		
STICKY CHICKEN & SOBA NOODLE BOWL Wok tossed chicken in a sticky chilli, ginger and soy sauce with soba noodles and fresh cucumber	\$18.50		
BBQ BRISKET BURGER Slow cooked smoky BBQ brisket, fried egg, fresh tomato and aioli on a potato bun served with chips	\$18.50		

FOR THE KIDS

CHEESEBURGER & CHIPS Beef, cheese & tomato sauce	\$12.00		
GRILLED CHICKEN WRAP Burrito style with avocado, cheese, corn and tomato salsa Served with chips	\$11.50		
HAM & CHEESE PIZZA Crisp tortilla base, topped with ham & cheese on a tomato base	\$11.00		
DINOSAUR CHICKEN NUGGETS (6) Served with chips and tomato sauce	\$11.00		

ZOO MAP:

https://taronga.org.au/sites/default/files/content/maps/TWPZ%20Map_Ed16v14_MAPONL_Y.pdf



Maths Optional Extension: Zoo Maths Continued

...

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

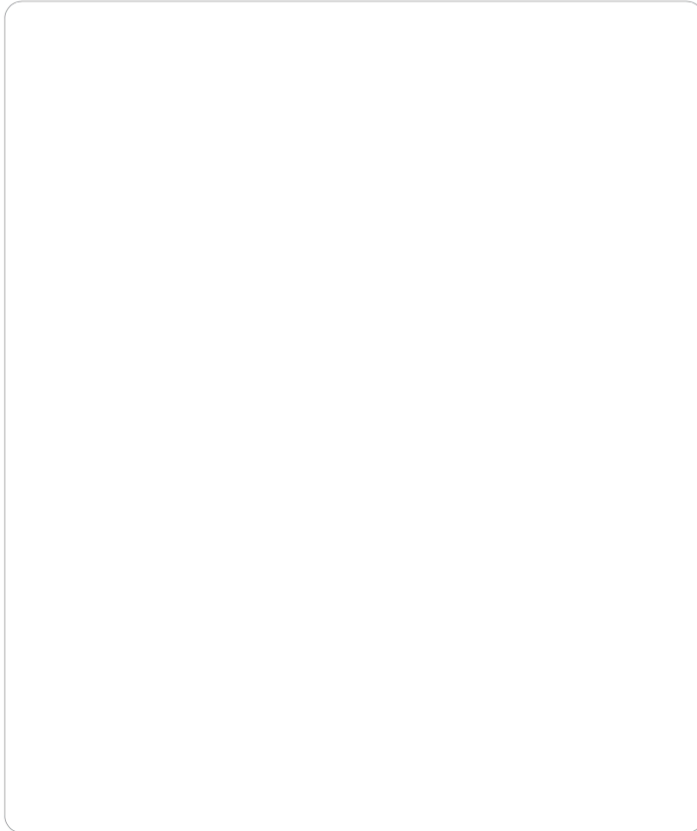
North-east	South-east	South	Central	West	
China	Brunei	Afghanistan	Kazakhstan	Armenia	
Japan	Cambodia	Bangladesh	Kyrgyzstan	Azerbaijan	
Mongolia	Timor-Leste	Bhutan	Tajikistan	Bahrain	
North Korea	Indonesia	India	Turkmenistan	Cyprus	
South Korea	Laos	Iran	Uzbekistan	Georgia	
Taiwan	Malaysia	Maldives		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.



Changing States of Matter

Matter is any physical substance that occupies space and possesses mass. Matter most commonly exists as one of three states of matter: solid, liquid or gas.

It is possible to change matter from one state to another by increasing or decreasing temperature. A substance will change from a solid to a liquid to a gas when heat is applied. When a substance is cooled, the order is reversed; the matter will change from a gas to a liquid to a solid.

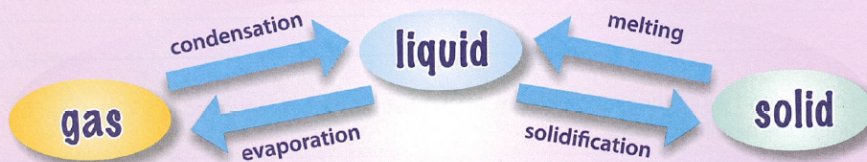


How is a Change of State Possible?

Substances exist in different states depending on temperature and pressure. When heat energy is applied to matter, the particles start to move quicker causing the forces holding them together to weaken and move apart. All solids have different melting points, which is the point when they change from a solid to a liquid. The melting points vary depending on the strength of the bond between the particles, and their mass.

When substantial heat is added to a solid, the particles gain enough energy to overcome the bond holding them together. They separate and move away from each other, causing the matter to melt and become a liquid. The more heat that is added, the further the particles move away from each other. If enough heat is added to a liquid, it will become a gas.

The opposite process happens when a substance is cooled. The particles are drawn back together as their movement decreases. As the temperature decreases, the forces holding the particles of a gas together strengthen causing them to condense and form a liquid. If the temperature decreases until the freezing point of a substance is reached, it will then become a solid.



Dictionary

Solidification	The act of becoming compact, hard or solid.
Melting	The process of becoming a liquid, or liquid-like.
Evaporation	Conversion from liquid form to vapour form.
Condensation	Reduction of a gas to a liquid.

1 Shade two characteristics of matter.

occupies space

needs light to survive

possesses mass

is always cold

2 Fill in the missing words.

A substance will change from a _____ to a liquid to a _____ when heat is applied. When a _____ is cooled, the order is _____.

3 Do all solids have the same melting point? Explain.

4 Shade **true** or **false**.

- | | | |
|--|------|-------|
| a It is possible to change matter from one state to another. | true | false |
| b When a solid is heated it can become a liquid. | true | false |
| c When particles are heated they move closer together. | true | false |
| d When particles are heated they move away from each other. | true | false |

5 What happens to a gas when the temperature decreases?

6 What happens if enough heat is added to a liquid?

7 Draw a line to match each clue to a word.

- | | | |
|---|---|------------------|
| a Conversion from liquid form to vapour form. | ● | ● melting |
| b The act of becoming compact, hard or solid. | ● | ● evaporation |
| c Reduction of gas to a liquid. | ● | ● condensation |
| d The process of becoming a liquid, or liquid-like. | ● | ● solidification |

Inference question

8 State the process or processes that would occur in each situation.

- | | |
|---|---|
| a Steam rose from boiling pots in a restaurant and settled on the roof. | c A snowboarder left his full water bottle in the snow overnight. |
| b Corrine's jug of ice water was left in the sun on a hot day. | d Bree put chocolate in the microwave. |

Solid or liquid?

Follow the steps to make this usual substance. Don't forget to take a video of this experiment and upload to Teams.

1. Materials:

- 1 Cup water
- 1 ½ cups cornflour
- bowl
- Food colouring (optional)



2. Steps:

- a) Place cornflour into bowl.
- b) Pour in water
- c) Add a few drops of food colouring
- d) Mix with hands until combined. It'll be hard but keep mixing. If it seems a little dry, then add a little bit more water.

Do not pour this down the sink as it may clogged up the drains. Pour the substance into a plastic bag and throw it in the bin after the experiment.

3. **Question: What state of matter is this substance? Solid or liquid? Write a prediction to tell how you think it will act or what will happen.**

Hypothesis: _____

4. Touch it, move it, pick it up, squeeze it, punch it. Form it into a ball and observe what happens when you open your fingers. Write what it felt like and how it acted.

5. **Conclusion: Is this substance a solid or liquid?** _____

6. **Explain why you think the substance acts the way it does.**

7. **Do you know what this substance is called?** _____

STORY REPORT



STORY TITLE:

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



ENTERTAIN PERSUADE INFORM
EXPLAIN DESCRIBE

RATE THE STORY OUT OF 5 STARS



STORY LENGTH:



REPORTER:

STORY TOPIC:

REPORTERS OFTEN QUOTE OR INTERVIEW EXPERTS

NAME THE EXPERTS IN THIS STORY & SUMMARISE THEIR KEY POINTS

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:



BTN

BEHIND THE NEWS