Framework for Learning from Home – Year 5 2021 Week 8

在家学习大纲——2021 年第 5 年第 8 周

对于以下某些练习,你可能需要父母的帮助。完成所以的作业并请父母检查。

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

	Monday 30 th August	Tuesday 31 st August	Wednesday 1 st Sept.	Thursday 2 nd Sept.	Friday 3 rd Sept.
Morning	English 英文	English 英文	English 英文	English 英文	English 英文
上午	Viewing/Reading: have a look at the stimulus below 'Taking Flight' and write down 5 of your noticings. 查看/阅读:查看图片"起飞",写下你从图片里注意到的5个事项。 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. 回应/写作:使用这个故事开头来"起飞,接着写故事。记住使用 7 个写作步骤策略来使你的故事引人	Reading: 阅读 Library ZOOM Session with Mr Philpott Mr Philpott 阅读课 10 am – Classes 5D, 5P, 5L and 5J 5D, 5P, 5L 和 5J 网课 Join Zoom Meeting 链接 https://nsweducation.zoom. us/j/68251668283?pwd=WE 00dUY4eEV3enFKeWJ4VGIn QXY1Zz09 10:30 am – Classes 5S, 5M and 5K 5S, 5M and 5K 网课链接 Join Zoom Meeting https://nsweducation.zoo m.us/j/68406478658?pwd	Viewing/Reading: Read or listen to the news article of the day from 查看/阅读: 阅读或收听当天的新闻文章 https://www.kidsnews.com.a u/ and complete the quick quiz related to it. Copy and paste the questions into your PowerPoint and complete them. 完成与之相关的快速测验。将问题复制并粘贴到你的PowerPoint 中并完成它们。 Response/Writing: Answer these questions based on the stimulus 'Taking Flight'.	Viewing/Reading: Read the poem "Artist Moon" from the August issue of Orbit school magazine. 查看/阅读: 阅读 Orbit 学校杂志 8 月号中的诗歌 "艺术家月亮"。 https://drive.google.com/file/d/1ftKwQvrk-Yj_XZsdwZA1KiSt_b6WMlyq/view?usp=sharing Response/ Writing: Read the poem aloud 回应/写作: 大声朗读这首诗 1.What is the poem talking about?	Viewing/Reading: Lis ten to the Squiz Kids daily podcast: 观看/阅读: 收听 Squiz Kids 每日播客 https://www.squizkid s.com.au/ Response/ Writing: Complete the following activities: 完成以下练习: 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



入胜。

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 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.

拼写:完成下面第 26 单元的一页和本周单元的在 线练习。

www.soundwaveskids.com.

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

=MHE4dCtOQ2MwV2ozNz dJT1BUN25iZz09

Mr Poulos' Persuasive Writing Lesson: Week 8 Lesson Part

1:MrPoulos'写作

Look at Mr Poulos' PowerPoint and video instructions.

看老师的视频做

Think about the topic: 思考话题: 越小越好 Topic: Smaller is Better.

Think of whether you are **FOR** or **AGAINST** this topic, brainstorm ideas you have around this topic.

想想你是赞成还是反对这 个话题,围绕这个话题集 思广益。 回应/写作:根据图片"起飞"回答这些问题。

- 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?
- 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.

拼写:使用本周的声波单词列 表完成拼写作业。

Mr Poulos' Persuasive Writing Lesson: Week 8 Lesson Part 2

MrPoulos'写作课 2 Look at Mr Poulos' PowerPoint and video instructions. 看老师视频做

Think about the topic: Smaller is Better

话题: 越小越好

2. What is the moon doing?

- 3. What human job has the moon been assigned? (Check the 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.

这是一首将月亮与艺术家 进行比较的扩展隐喻诗, 现在轮到你使用下面的模 板来写一首隐喻诗

Spelling: complete a task from the spelling grid using this week's soundwaves word list.

拼写:使用本周的声波单词列表完成拼写作业。

to? Why?

4 Rate this podcast out of 10. Why have you given it this rating?

Soundwaves:

Complete one page of Unit 26 below and the online activities for this week's unit. 完成下面第 26 单元的一页和本周单元的在线练习。

www.soundwaveski ds.com.au

Access code: sit815

Optional Extension Activity 'Taking Flight'选做题

Can you draw a picture of what it is the bird has spotted underneath the surface of the water?

你能画出那只鸟在水面下发现的是什么吗?

	dictionary meaning of at least 10 words. 扩展 作业:请注意,有一个扩展词列表。从这个扩展列表中写一个至少包含10 个单词的段落。找出至少10 个单词的字典含义。		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. 写一篇关于"越小越好"的说明。 不要忘记写 5 段引言,3个论点和一个结论。 在你的说明中,重点使用人称代词(请参阅电源点)。 将你的说明写在 Word 文档中并上传到 Teams。		
Break	Break 小憩	Break 小憩	Break 小憩	Break 小憩	Break 小憩
Middle 中段	Mathematics: 数学 Mass Focus Complete the worksheet Capacity, Volume and Mass. 完成数学题 Optional Extension Activity: Oranges and Lemons 选做题 On the table there is a	Mathematics: 数学 Complete the HotMaths activities set by the teacher, including one HotSheet. 完成数学题 Optional Extension Activity: Watermelon competition 选做题 Here are three	Mathematics: 数学 Mass Focus Complete the worksheet 完成数学题 Graduated Scales. Remember to then login to iMaths and look at unit MG3 and look at the consolidation and extension activities. 记住然后登录 iMaths 并查看单元 MG3 并查看合并和扩展练习。 Optional Extension Activity: What's my	Mathematics:数学 Complete the HotMaths activities set by the teacher, including one HotSheet. 完成数学练习 Optional Extension Activity: Terminating Decimals 选做题 A terminating decimal is a decimal which has a finite number of decimal	Mathematics: 数学 Decimal Focus Complete the worksheets Decimal Addition and Subtraction 完成数学练习 Remember to then login to iMaths and look at unit NA19 and NA21 and look at the consolidation and extension activities.

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? 桌子上有一堆橙子和柠 檬, 重一公斤。橙子全部 重 130 克。柠檬的重量也 都相同,不到一个橙子重 量的 23。一堆柠檬的数量 是橙子的两倍。有多少个 柠檬, 每个有多少重量?

Wellbeing/P.E- Fitness Aerobics

Watch and follow along to the video below. Kids Morning Workout -Kids Daily Exercises Kids Morning Workout -Kids Daily Exercises -YouTube

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 melongrowing 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? 这是三个西瓜。图片前面 的那个重 7.35 公斤。图片 左边的那个重 8.20 公斤。 图片右边的那个重 6.45 公 斤。在瓜类种植比赛中. 瓜每重一克就得一分。每 个瓜得多少分? 你能解释一下你是如何解 决这个问题的吗?

Languages: please complete any Languages work set by your Languages teacher on your Languages Teams account.
中文课时间-完成中文作业

Wellbeing/P.E- Fitness

Weight? 选做题



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*q*, how heavy must one weight be? If the apple weighed 375*q*, how heavy would one weight be? If the apple was a giant one and weighed a full kilo and the weights were each 250a, what would the scale look like? How do you know? Can you prove it?

 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. 你认为哪些可以写成终止小数?做出预测后,将分数转换为小数。

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! 运动时多喝水,找一个没有危险的地方锻炼。祝你玩得开心!

记住然后登录 iMaths 并查看单元 NA19 和 NA21 并查看合并和扩 展练习。

Languages: please complete any Languages work set by your Languages teacher on your Languages Teams account.
中文课时间-完成中文作业

Creative Arts:美术

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 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.

Afternoon

下午

Science: Gases Matter 科学

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.

在 Gases Matter 工作表上列 出气体的 5 个属性。接下 来,完成"防水纸实验"。确 保在表格上写下您的预测、观 察和解释。

您还需要使用给定的工作表进 行"袋中气体实验"。

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

BTN: Watch this week's BTN episode 看本周 BTN 视频 https://www.abc.net.au/btn/

Choose a story that is of particular interest to you and complete the story report sheet below.

选择一个你特别感兴趣的故事并完成下面的故事报告表。

Watch something that makes you laugh, then share this with a friend or family

看一些让你发笑的东西,然后 与朋友或家人分享。



Do 15 minutes of stretching or yoga – eg Cosmic Yoga or Youtube Yoga for Kids 做 15 分钟的伸展运动或瑜伽——例如宇宙瑜伽或 Youtube 儿童瑜伽

https://www.youtube.com/use r/cosmickidsyoga

https://www.youtube.com/watch?v=X655B4ISakg



Geography: Features of Asia 地理: 亚洲特点

Choose one Asian country of focus to study. These include: Japan, Singapore, Papua New Guinea, India, South Korea, Indonesia, Vietnam, Cambodia.

选择一个亚洲重点国家进行学习。其中包括:日本新加坡、巴布亚新几内亚、印度、韩国、印度尼西亚、越南、柬埔寨。

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.

你需要研究和使用各种不同 的地图(地形、气候、人口 密度)来调查地理特征、人 口、气候以及经济和货币。

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: 活动

Complete an activity from the "activities and ideas for home for parents of primary learners" sheet on the back page of this booklet.

完成本手册封底的"小学 生家长在家的活动和想 法"表中的一项活动。

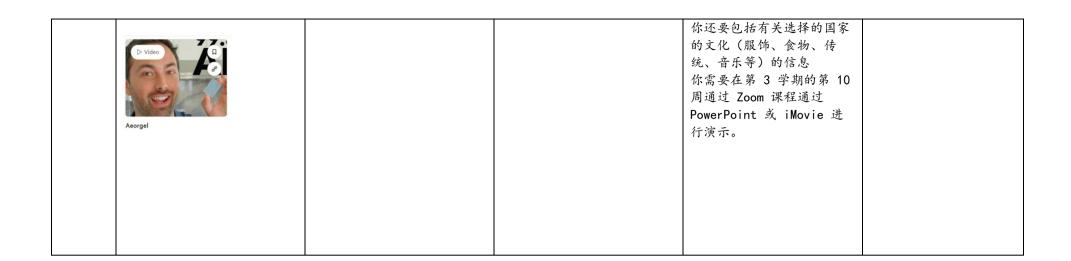
Catch-up:赶上功课

Finish any unfinished tasks from Monday – Thursday 完成一周所以 没做完的作业

Optional Extension Activity: 选做题 Continue working on ZOO STEM challenge competition:

挑战竞赛

https://taronga.org.au/ education/digitalprograms-onlineresources/enrichmentdesign-competition



Taking Flight



v ve vase sleeve	Colour the graphemes that represent (vve grapheme Chart and the List Words.	Go to the List Words for Unit 26. Count the sounds and identify all the graphemes in each List Word. Write any other letters that can represent (vec on word example for each. 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.	about what could be done. Advice is a noun meaning information or an explanation about what could be done. (A error or a e i ou)	ne pairs of words, and p	they have they are we would we are	would've should've	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.
	= S	Go ide ide Wri the the Wri	(== == ==	5 ₹ ±		i	end e-for

relating to a minus position

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+	-	0	Ф		S	0	S
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D	S	w	O	3	S	Φ	>
<u>_</u>	O	0	>	0	U	-	-
5	0	_	0	_	0	J	>
S	>	>	_	3	>	+	0
J	Ф	Φ	L	+	Ф	C	-
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56 Sound Waves 5 Student Book ISBN 978 1 74135 160 6

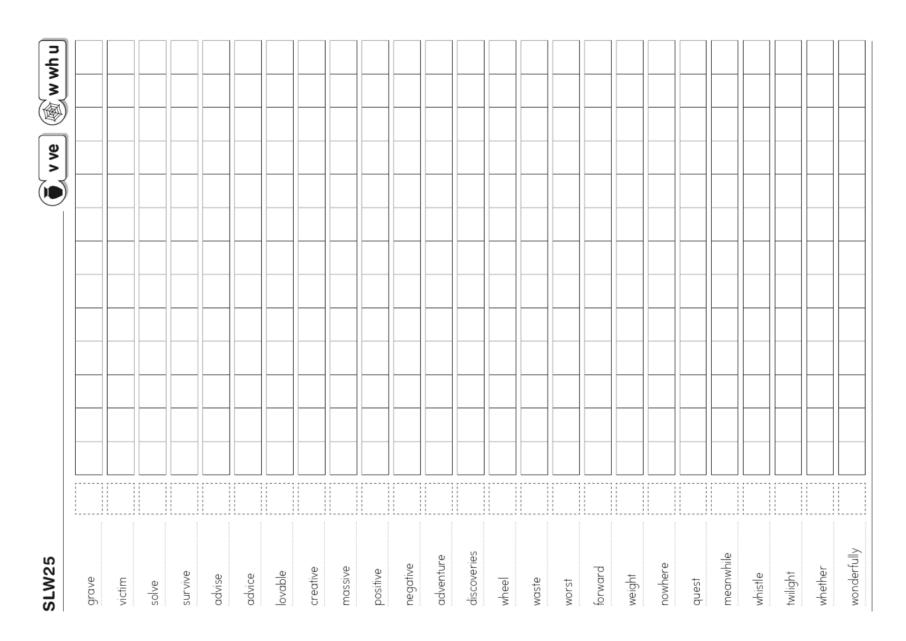
Hidden Word

grapheme grapheme e e i. (let us)	queen spresent www grapheme 26. Count the sounds and each List Word. an represent www on the word example for each. irs of words in the brackets irs of words in the brackets her (we have) Ale (should have) getting wet, (let us) getting our parents to see come for us. If they (can not)		word			o. Now this rain	brought umbrellas.	wait in	had)	they are)	ob ,—	C - J
eb whale queen e graphemes that represent ﴿ whu t Words. List Words for Unit 26. Count the sounds and all the graphemes in each List Word. y other letters that can represent ﴿ whu ntractions for the pairs of words in the brackets had this winter. It was wonderfully so he out of nowhere. We (should have) lie, since (we are) continued outside. I'll ring our po able to come for us. If they (can	web Colour the grap n the List Word So to the List Word dentify all the grapheme chart Grapheme Chart Mrite contractic Write contractic Mrite sentences Fris is the wor This is the wor This shop. We his shop. We	omoduce 20	grapheme	əc		unny a while ag	brd	it, (let us)	drenched if (we	arents to see if (not)	
eb whale queen e graphemes that represent (at Words. List Words for Unit 26. Count all the graphemes in each List V y other letters that can represe the Chart. Write one word examinated on the worst, wet weather (we have not of nowhere. We (show he out of nowhere. We (show he out of nowhere. We (show he out of nowhere.) To We (would have) Continued outside able to come for the forther have have the outside the come for the forther have the	web colour the grap n the List Word So to the List W dentify all the g write any other Grapheme Char Grapheme Char Grapheme Char Arite contractic write contractic write sentences his shop. We his shop. We		® wwhull the sounds and Nord.	ent ®wwhu on thiple for each.	ds in the brackets	nave) s wonderfully si	uld have)	getting we	got o	e. I'll ring our po	us. If they (can	+60
eb whale to the graphemes to the graphemes to the graphemes for all the graphem to the graphem t	web colour the grap n the List Word So to the List W dentify all the g write any other Grapheme Char Grapheme Char Grapheme Char Arite contractic Arite contractic write sentences This is the wor This shop. We his shop. We	le d n een	hat represent (@ r Unit 26. Count les in each List V	that can represe	he pairs of word	weather (we h is winter. It wa	here. We (sho	are)	have)	ntinued outside	e to come for	
	1 Colour the Lis 2 Go to the identify a Grapher Grapher on the se in the se in the se has con Meanwh this sho	eb whal	ne graphemes t t Words. e List Words for all the graphem	y other letters ne Chart. Write	ntractions for t ntences.	ne worst, wet had th	ne out of now	nile, since (we	p. We (would	cor	ab	and and and

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

1. opposite of 2. seven days 1. a word to 2. can often 1. we would 2. plant that 1. used to m 2. hits or smc	1. opposite of strong 2. seven days make 1. a word to descril 2. can often be rep 1. we would 2. plant that is a pe 1. used to make ca 2. hits or smacks 4. r	2. seven days make a 1. a word to describe such a seven days make a 2. can often be replaced a seven would a seven day that is a pest a sex of the seven descardles and the seven a	1. opposite of strong 2. seven days make a 1. a word to describe sunst 2. can often be replaced by 1. we would 2. plant that is a pest 3. hits or smacks 4. w e e c 7. hits or smacks 6. e t s 8. w e 7. hits or smacks 8. w e e c 9. hits or smacks 9. hits or smacks 9. hits or smacks 1. e c c condiscs 9. hits or smacks 1. e c c condiscs 9. hits or smacks 1. e c c c condiscs 9. hits or smacks 1. e c c c c c c c c c c c c c c c c c c	s make a	1. opposite of strong 2. seven days make a 1. a word to describe sunshine, rain 2. can often be replaced by the wor 1. we would 2. plant that is a pest 2. hits or smacks 4. we e d d d d d d d d d d d d d d d d d	2. seven days make a	2. seven days make a
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57



Extension List

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investigative	
mischievous	
privileged	
rendezvous	
severity	
solvable	
solvent	
souvenir	
sovereign	
survival	
Φ	
verify	
vigorous	
villainous	
vivacious	
voluntary	
5 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	
Sound Waves 5 Printables	Sound Waves 5 Printables © 2012 Firefly Education Pty Ltd

Word Work Grid

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

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

TeachStarter.com

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.

hairdresser designer musician chef

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. ς.

Describe what you see when the Moon makes its creation. ω. 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. 4.

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. 5.





Maths worksheet 1



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
I mL	I cm ³	Ιg
I0 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
Litre (L)	1000 cm ³	I kilogram (I kg)
IO 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 cm³, m³). Mass: the amount of matter an object contains (use mg, g, kg, t).

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

	Capacity (water)	Volume	Mass
Ī	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	
ſ	f	1000 cm ³	l kg
ſ	g 2 L		2 kg
	h	25 000 cm ³	25 kg
	60 L	60 000 cm ³	
	j	3500 cm ³	3.5 kg
H			3.5 kg



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



Volume: Mass: Capacity:







Volume:

Mass:



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?

ISBN 978 1 74135 180 4 iMaths 5 Student Book 87

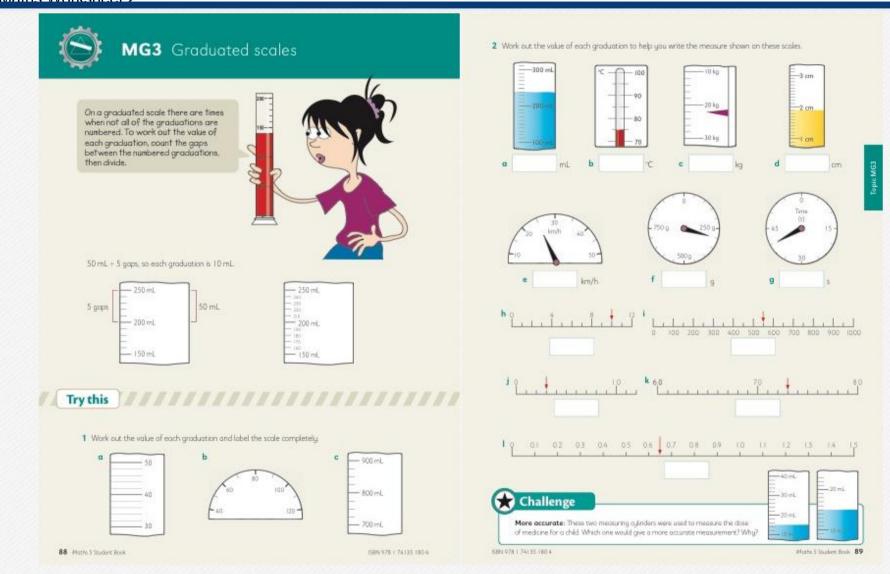
Try this

- 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?

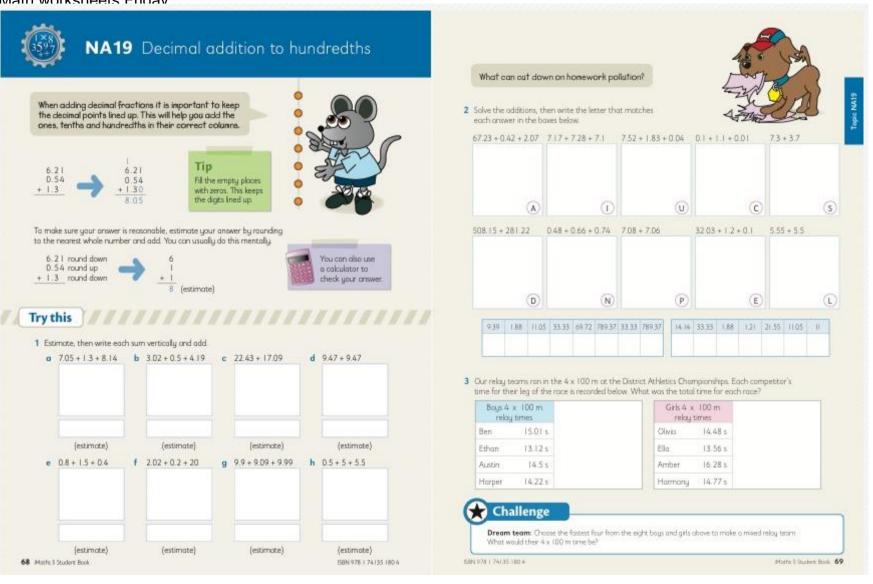
86 iMaths 5 Student Book

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Maths Worksheet 2



Math worksheets Friday





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.



Tip

Fill the empty places with zeros. This also keeps the diaks 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,



-26

60 (estimate)



You can also use a calculator to check your prower.

Try this

- Estimate, then write each subtraction vertically and subtract.
- a 56.41 3.29
- b 77.25 72.6
- c 22.43 17.09

(estimate)

(estimate)

d 16.7-11.46

- (estimate)
- (estimate)
- e 9.9-9.47
- (estimate)
- f 518.41 8.41

(estimate)

72 Meths 5 Student Book 58N 97B 1 74135 180 4

- 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 Manaco and Australia b Australia and USA

-			
- 100			

d China and India

c Australia and Chad	d O

Australia and South Africa	f Monoco and Cha

Life expectancy at birth Rank Country Years Monoco 89.52 84.74 2 Jopan 13 Austrolia 82.15 79.68 43 USA 99 China 75.41 70.47 153 Russia 68.13 163 India 191 South Africa 62.34 50.87 222 Afghanistan 224 Chod 49.81

Source: The World Footbook.

- 3 Use the Boys 4 x 100 m relay times on page 69 to answer these questions.
- Who ran faster, Ethan or Harper?
- b Who ron faster, Ben or Austin?

whot is the otherence between their times?	Music e que amerence detween ques priness		

- 4 Use the Girls 4 x 100 m relay times on page 69 to answer these questions.
- Sort the four competitor times from fostest to slowest.
- b What is the difference between the time of the

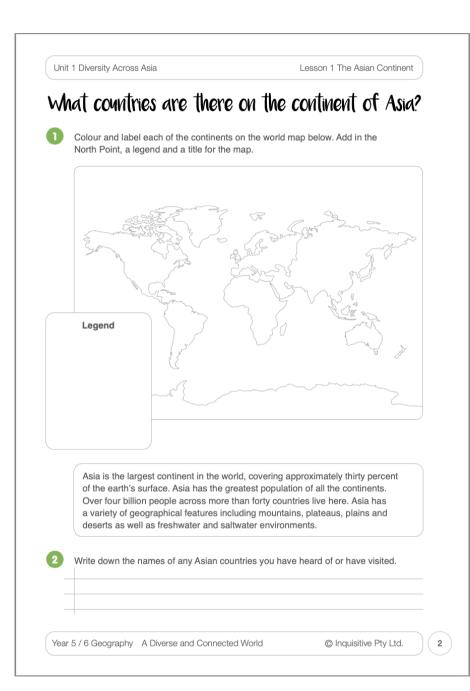
fostest	girl in t	he relay	teom	and slo	west?

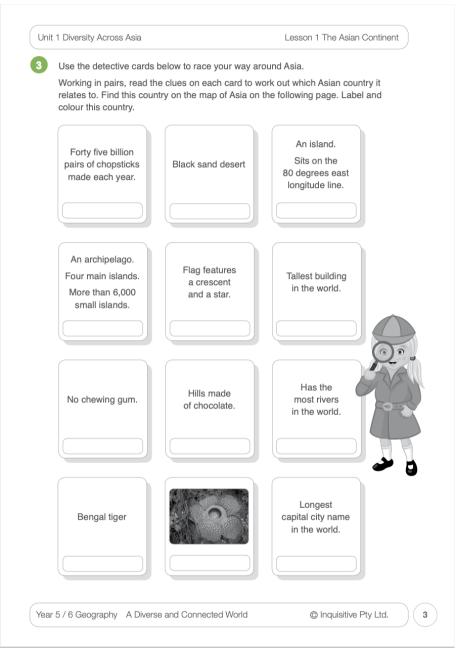


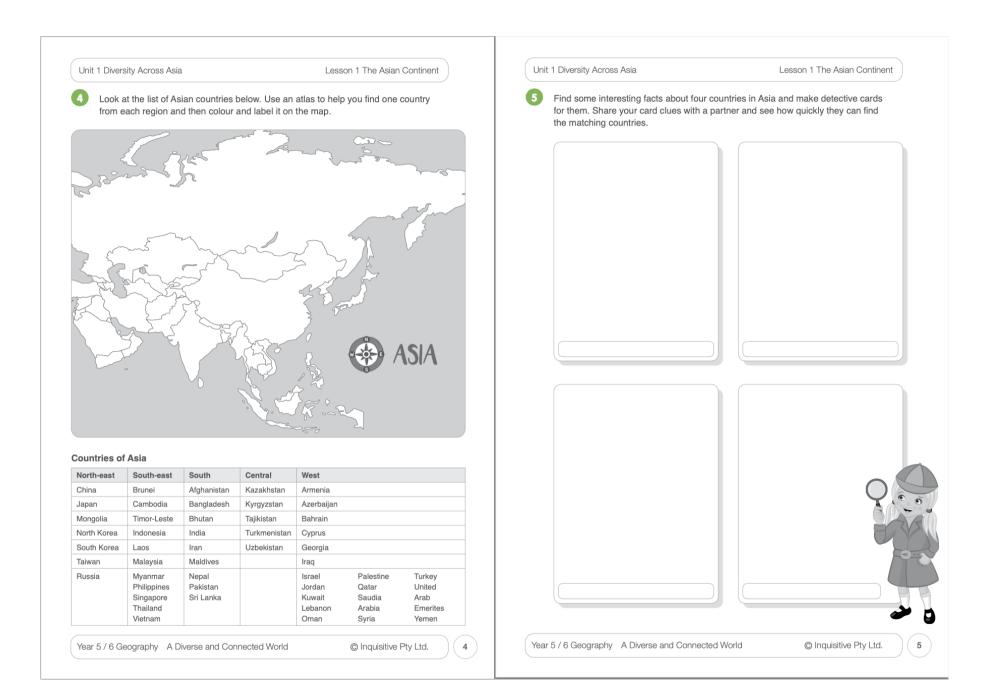
What was the question? The answer to a decimal subtraction is 9.09. Write three possible questions that would give this answer.

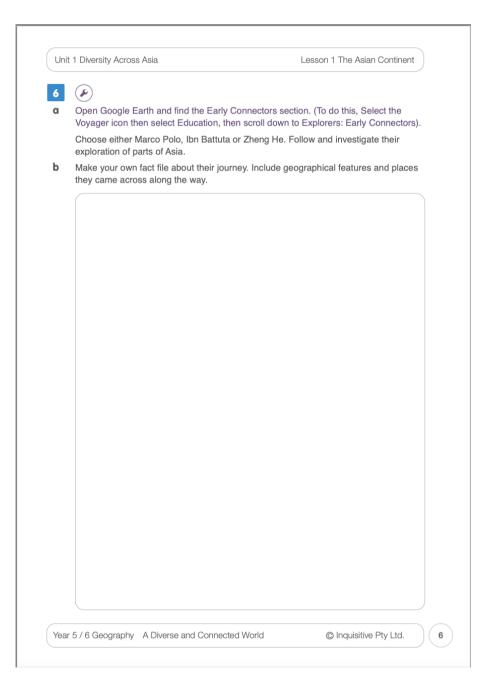
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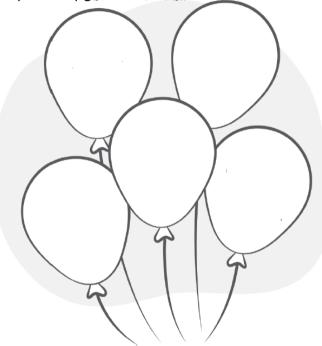


Gases Matter

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

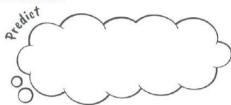
Step 1: Collect the materials listed on page 1

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.

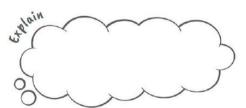
What will happen to the paper if you lower the cup down into the water? Write your **prediction**.



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?

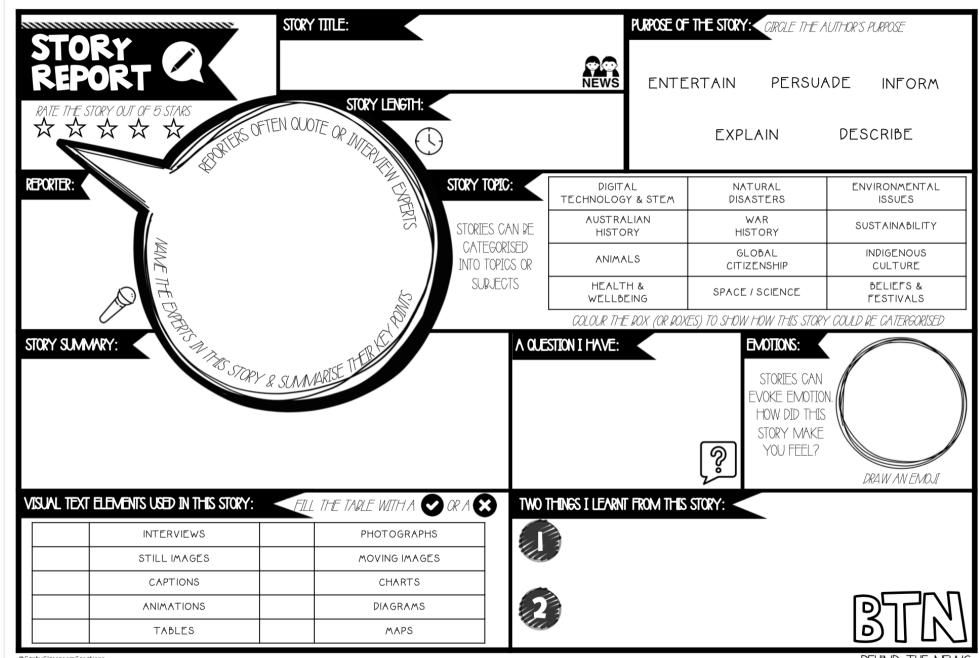
Equipment

- 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!

Α	fair test			
<u>Controls</u>	<u>Variable</u>			
Hypothesis (predict what you	think will happen)			
Results - data /observations (photos)				
Conclusion				



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