

Framework for Learning from Home – Year 6

六年级 第六周 在家学习大纲

Term 3 – Week 6

	Monday 16 th August	Tuesday 17 th August	Wednesday 18 th August	Thursday 19 th August	Friday 20 th August
Session 1	<p>English 英文 Soundwaves: Unit 24 Complete online activities using the online platform. 完成在线作业</p> <p>Writing 写作 Sizzling Start Students watch pre-recorded video introducing a range of persuasive techniques and devices to create a sizzling start. Students create a sensory word bank and write their own sizzling start on the topic 'Breakfast is the most important meal of the day.' 兴奋写作的开始 观看预先录制的视频，其中介绍了一系列说服技巧和手段，以创造一个令人兴奋的开始。创建了一个感官词汇库，并就“早餐是一天中最</p>	<p>English 英文 Soundwaves: Unit 24 Complete page 1 of Unit 24 student pages 完成第 24 单元第 1 页</p> <p>Writing 写作 Composing an argument Students watch pre-recorded video on Dynamic Dialogue and sentence structure video on ClickView. 在 ClickView 上观看预先录制的对话视频和句子结构视频。 Students compose their own Argument 1 on the topic 'Breakfast is the most important meal of the day' following the TEEL structure. 根据 TEEL 结构就“早餐是一天中最重要的一餐”这一主题</p>	<p>English 英文 Reading: read or listen to a news article from 阅读或收听链接新闻 https://www.kidsnews.com.au/ Respond: Choose one of the following: 选择下面其中一题</p> <ul style="list-style-type: none"> answer the questions at the end of the article complete one of the activities at the end of the article <p>9.30 Virtual Library with Mr Philpott 图书馆网课时间</p> <p>History 历史 <i>Inquisitive (due Friday)</i> Lesson 1 第一课</p>	<p>English 英文 Soundwaves: Unit 24 Complete page 2 of Unit 24 student pages 完成第 24 单元第 2 页</p> <p>Writing 写作 Composing an argument 写劝说文 Students watch pre-recorded video on Dynamic Dialogue and continue to use brainy quote website to find quotes related to their arguments. 看预先录制的视频，并继续使用 brainy quote web 网站查找与他们的论点相关的争议。 Students compose Argument 2 and 3 on the topic 'Breakfast is the most important meal of</p>	<p>English 英文 Listen to the Squiz Kids daily podcast: 收听每日导播 https://www.squizkids.com.au/ Respond: Record the 5 most interesting facts. Why are they interesting to you? 回答：记下 5 个最有趣的事情。为什么你觉得很有趣？</p> <p>Soundwaves: Unit 24 Optional extension: 选做题 Superchallenge activity 超级挑战练习</p> <p>Science 科学 Complete the experiment – results for each day and your conclusion. 完成实验——每天的结果和你的结论。</p>

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	<p>重要的一餐”这个话题写下了他们自己的文章头一段。</p> <p>Science 科学 <i>Inquisitive</i> <u>Living Things in Their Environment</u> – 环境中的生物 Lesson 5 – A Fungi Experiment Complete the lesson pages using the given stimulus resources in Inquisitive. 第 5 课 - 真菌实验 使用 Inquisitive 中提供的资源完成课程页面。 Class to do: http://inq.co/class/4zi Class code: 7884 This lesson will need more than one session to complete. Additional time has been allocated on Tuesday. 这个作业你需要比较多的时间完成。周四已经分配了额外的时间。</p>	<p>撰写他们自己的论证 1。</p> <p>Viewing: Watch ‘Behind the News’ on ABC Me or online at https://www.abc.net.au/btn 在 ABC Me 或在线观看“新闻背后”</p> <p>Respond: Choose your favourite story. Write a detailed summary of the story. Include what you think about the story. 回答：选择你最喜欢的故事。写一个详细的故事摘要。包括你对这个故事的看法。</p>	<p><u>Stories of migration</u> - (Human Migration)移民</p> <p>Complete the lesson pages (using the given resources in Inquisitive). 用在 Inquisitive 提供的资料完成作业 Class to do: http://inq.co/class/4zi Class code: 7884 This lesson will need more than one session to complete. Additional time has been allocated on Thursday. 这个作业你需要比较多的时间来完成。周四已经分配了额外的时间。</p>	<p>the day’ using topic sentences, a range of sentences, punctuation, evidence/research and persuasive techniques and devices. 学生使用主题句、一系列句子、标点符号、证据/研究以及有说服力的技巧和写作手段，就“早餐是一天中最重要的一餐”这一主题撰写论点 2 和论点 3。</p>	<p>Writing 写作 Ending with impact 有影响力的结尾 Students watch pre-recorded on Ending with impact. Students write a conclusion on the topic ‘Breakfast is the most important meal of the day’ linking back to their arguments and including a call to action. Remind students to use emotive language, repetition and rhetorical questions. 观看预先录制的 Ending with Impact。就“早餐是一天中最重要的一餐”这一主题写下结论，并与他们的论点相关联，并呼吁采取行动。要使用情绪化语言、重复和反问句。</p>
Break 小憩	Break (30 mins) 小憩 Eat & Play	Break (30 mins) 小憩 Eat & Play	Break (30 mins) 小憩 Eat & Play	Break (30 mins) 小憩 Eat & Play	Break (30 mins) 小憩 Eat & Play

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Session 2	<p>Fitness 健身</p> <p>Bouncing & ball control 弹跳和控球</p> <p>Watch this interactive video and practice your bouncing and ball control skills – Day 1</p> <p>观看互动视频并练习弹跳和控球技巧——第 1 天</p> <p>https://vimeo.com/419469726</p> <p>(Attach Week 6 fitness PowerPoint)</p> <p>Maths 数学</p> <p>iMaths – Practice Makes Perfect (due Thursday)</p> <p>完成 iMaths 练习。本周星期四交作业</p> <p>Access code: ball803</p> <p>This is a quick, hands-on, fun investigation based on the skill of coin catching. 这是一个捕捉技巧的快速、动手、有趣的探讨活动。 The Investigation integrates well with science, as it demonstrates the importance of fair</p>	<p>PDH 智育与德育</p> <p>Mental Health</p> <p>Students will participate in activities to promote their understanding of the importance of mental health and wellbeing. Promoting the ability to ‘bounce back’ when life changes and challenges you.</p> <p>精神健康</p> <p>学生将参加活动，以促进心理健康和福祉重要性的理解。当生活发生变化和挑战时，提升“反弹”的能力。 Instructions are found in PDH PowerPoint. 看 PPT 指导</p> <p>Maths 数学</p> <p>iMaths – Clever Containers (due Thurs) 本周星期 4 交作业</p> <p>Access code: ball803</p> <p>This Investigation requires measuring, predicting, working with formulae and spatial concepts. Students will investigate linear equations in order to</p>	<p>Mathematics 数学</p> <p>NRich - Factor Track 因素追踪</p> <p>This problem will help to improve learners' knowledge of factors, especially those in the usual multiplication tables, and encourages them to use trial and improvement. The competitive element can bring out the best in some pupils.</p> <p>这个问题将有助于提高学者对因素的认识，特别是对常用乘法表中的因素的认识，并鼓励他们尝试和改进。竞争元素可以激发一些学生的最佳表现。</p> <p>Wellbeing Wednesday 福祉星期三</p> <ul style="list-style-type: none"> • Design and complete an exercise or dance routine – see if you can get your family to do it too 设计并完成一项锻炼或舞蹈活动——让家人跟你一起做 	<p>Fitness 健身</p> <p>Bouncing & dribbling 弹跳和运球</p> <p>Watch this interactive video and practice your bouncing and dribbling skills – Day 2 观看互动视频并练习弹跳和运球技巧——第 2 天</p> <p>https://vimeo.com/442952092</p> <p>Maths 数学</p> <p>iMaths: Practice Makes Perfect and Clever Containers</p> <p>Access code: ball803</p> <p>Finalise and submit your investigations.</p> <p>完成并提交你的调研。</p>	<p>Fitness 健身</p> <p>Play a game of 2 square bounce with your sibling or family member.</p> <p>与你的兄弟姐妹或家人玩 2 方弹跳游戏。</p> <p>Instructions are found in Fitness PowerPoint. 说明可在 Fitness PowerPoint 中找到。</p> <p>Maths 数学</p> <p>iMaths: Games 数学游戏</p> <p>4-number operations (+, −, x, ÷) game - <i>revision</i></p> <p>看链接 https://online.fireflyeducation.com.au/program/imaths6/game/1189/#</p> <p>Access code: ball803</p>

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<p>testing and the procedures that need to be followed for a valid experiment to be carried out. Students will have great fun tossing, losing and catching coins.</p> <p>探讨与科学结合在一起，因为它展示了公正测试的重要性以及进行有效实验所需遵循的程序。通过将在抛硬币、丢硬币和接硬币的过程中获得极大的乐趣。</p>	<p>calculate the height of a stack of containers. Students must also investigate packaging options for delivering these containers in bulk. This Investigation develops important complex reasoning skills.</p> <p>这项学习探讨需要测量、预测、使用公式和空间概念。你将研究线性方程以计算一堆容器的高度。你还必须研究用于批量交付这些容器的包装选项。这项调查培养了重要的复杂推理技能。</p>	<ul style="list-style-type: none"> • Complete a mindfulness guided meditation. You can access these on Smiling Mind or Peaceful Kids 完成一次正念 mindfulness guided 引导的冥想。你可以在 Smiling Mind 或 Peaceful Kids 上访问这些链接 https://www.smilingmind.com.au/ https://www.peacefulkids.com.au/ <p>Turn off all devices for at least 2 hours 关闭所有设备至少 2 小时</p>		

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Break 休息	Break (1 hour) 休息 Eat & Play	Break (1 hour) 休息 Eat & Play	Break (1 hour) 休息 Eat & Play	Break (1 hour) 休息 Eat & Play	Break (1 hour) 休息 Eat & Play
Session 3	<p>Community Languages classes (20mins) 中文课时间</p> <p>Science 科学 Continue from earlier today. 继续今天的功课。</p>	<p>Science 科学 Continue with Monday's lesson – A Fungi Experiment 继续本周星期——真菌实验的功课。</p>		<p>History 历史 <i>Inquisitive (due Friday)</i> Lesson 1 <u>Stories of migration - (Human Migration)</u> <i>移民</i> Continue the work from Wednesday. Due Friday 继续本周星期三的作业。 本周五交作业</p>	<p>Music 音乐 <u>Kitchen Band 厨房乐队</u> Students form their own band, composing a group of complimentary rhythms and teaching them to family members. They also create a performance budget for their new act (Use PDF) 组成自己的乐队，编一组互补的节奏并将教家人。他们还为他们的新行为制定了绩效预算 (使用 PDF)</p>

完成格子中的作业，把日期写上。

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>



Some activities and ideas for home for parents of primary and early learners

Make or do a jigsaw puzzle	Try some origami	Create an obstacle course
Bake or cook something	Learn a magic trick	Paint or draw a picture
Make a joke book	Take photos of 10 living things	Build a blanket fort
Plan and hold a picnic	Make your own kite	Try a new board game
Play indoor mini-golf	Play Limbo	Write a letter to your future self
Potato sack race with pillow cases	Hold a tea-party	Make a time capsule
Hold a Karaoke concert	Play hide and seek	Open a pretend store
Blindfolded taste test	Look at photo albums	Have a paper plane contest
Play Pictionary	Play dress up	Play Restaurant
Make a shoebox diorama	Learn a new card game	Put on a play
Make or play an instrument	Create a treasure hunt	Write or recite poem
Have a talent show	Make handmade presents	Choreograph a dance
Read a new book from the library	Play water bottle bowling	
Play life-size Noughts and Crosses	Build the tallest tower	





Investigation 4 Practice makes perfect



Did you know that Michael Jordan did not make his high school basketball team the first time he tried out? With a great deal of practice and determination he became one of the world's top athletes.

If you were given an unusual skill to learn, how fast could you master it?

Investigate whether practice really makes a difference.

Topics

Before you start the Investigation you need to know...

SP1 Probabilityp114

SP3 Causes of bias.....p118

SP2 Judgments.....p116

SP5 Line graphs.....p122

Understanding the Investigation

I Read and plan.

Make sure you understand the meanings of: *skill, data, test conditions, practice, attempt, visualise, interpret, practise* and *Michael Jordan*.

Read and discuss the rubric.

Download your Investigation plan. This will help you with the organisation and understanding of the Investigation.

Teacher note

- Comprehensive lesson notes, suggestions and resources are available in *iMaths 6 Teacher Book*.
- The Investigation plan and Tear-out for this Investigation can be downloaded from www.imathsteachers.com.au.

Materials



Internet access



Tear-out 3



Eight coins (or counters)
per pair of students



Stopwatch

2 Visualise the new skill – coin catching.

To coin catch, put your hand on your shoulder, with your palm upwards. Balance a stack of eight coins on your elbow. In one quick movement flick your hand forward and try to catch the coins.

It's best to do this outside, in pairs, facing a wall.

Do not try this yet because you will affect the results. Wait until you start Step 3.

Using maths

3 Record your beginner skill level.

Find your 'beginner' skill level by making five attempts at catching the coins. Record the number of coins you catch in your hand at each attempt on **Tear-out 3: Coin catch record sheet**. It is important that you do not practise at all beforehand.

4 Practise, catch and record.

Next, practise the skill of coin catching for exactly one minute, then carry out the test. Make five attempts at catching the coins. Record the number of coins you catch at each attempt.

Repeat this process practising for one minute, coin catching and recording, until you have five sets of data – a total of 25 attempts including the beginner data.

Remember, practise for exactly one minute between each set of five attempts.

5 Show your improvement.

Graphing makes data easy to see and interpret. Draw or generate a line graph to show your 25 attempts.

Reasoning and reporting

6 Does 'practice make perfect'?

Did the results contain bias? Discuss how the test conditions may have changed and consider the effect this could have had on the results.

Examine the data on the graph and write a statement of probability or likelihood about what might happen with further practise and testing.

imathskids.com.au



Go to **imathskids.com.au** – the Investigation 4 area contains the Investigation plan and Tear-out that you need to complete this Investigation.

Tear-out 3
Investigation 4: Practice makes perfect

Coin catch record sheet

Use	Beginner skill to catch
1	
2	
3	
4	
5	

Use	Test 1
1	Coin caught
2	
3	
4	
5	

Use	Test 2
1	Coin caught
2	
3	
4	
5	

Use	Test 3
1	Coin caught
2	
3	
4	
5	

Use	Test 4
1	Coin caught
2	
3	
4	
5	

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Inquiry

List:

- 5 tasks at school that improve with practice
- 5 Olympians who have proven practice makes perfect
- 5 tasks where practice makes little or no difference.



Investigation 12 Clever containers



Disposable containers, such as cardboard and styrofoam cups or plastic take away containers, are able to be packed easily as they stack inside one another.

Your packaging company requires you to investigate the best measurements for a carton that could hold 1000 lidless rectangular plastic take-away containers, which are shrink-wrapped in individual stacks of 50.

Design a net for the best possible carton and calculate how much cardboard the packaging company needs to make it.

Get ready to stack and pack!

Topics

Before you start the Investigation you need to know...

- NA4** Multiplication by two digits.....p38
- NA10** Estimation strategies.....p50
- NA23** Patterns and general rules.....p76
- NA24** Order of operations.....p78
- MG2** Perimeter of composite rectangles.....p82
- MG3** Area of composite rectangles.....p84
- MG5** Packing and stacking.....p88
- MG10** Nets of prisms and pyramids.....p98

Understanding the Investigation

I Read and plan.

Make sure you understand the meanings of: *disposable, styrofoam, stack, pack, packaging, delivery, shrink-wrapped, dimensions, taper, relationship, minimal and template.*

Read and discuss the rubric.

Download your Investigation plan. This will help you with the organisation and understanding of the Investigation.

Teacher note

- Comprehensive lesson notes, suggestions and resources are available in *iMaths 6 Teacher Book.*
- The Investigation plan for this Investigation can be downloaded from www.imathsteachers.com.au.

Materials



Internet access



Rectangular plastic take-away containers



Ruler



Large sheets of paper

Using maths

2 Record information for one rectangular container.

Measure and record the length, width and height of a rectangular take-away container, to the nearest millimetre. Some containers taper from the top to create a slightly smaller base. If this is so, turn the container upside-down and measure. Tracing a template may help.

3 Make a table of values.

Design a table of values to record the first 15 terms. Measure to the nearest millimetre the total height of the stack as one container is added at a time. Complete the table to the 5th term only.

4 Find a pattern and use the general rule.

Look at your measurement data for 5 terms. Can you describe a pattern using a rule based on the previous term? Use this pattern to extend the data to the 10th term without measuring.

Calculate the 15th term without filling in values for the 11th to the 14th terms.

Find a general rule that will allow you to calculate the 50th term. Write the general rule as a number sentence using digits and symbols. Calculate the 50th term.

5 Design a carton.

Find the best dimensions for a carton that will hold 1000 containers. Containers are shrink-wrapped in stacks of 50. First, calculate how many stacks you will need.

Use your container measurements from Step 2 and the height of the stack of 50, calculated in Step 4, to find the best dimensions for your carton. Draw the net and label the dimensions.

6 How much cardboard?

Calculate the area of your carton's net. Then, calculate the area of the smallest possible rectangular cardboard sheet that would be required to make the net.

Reasoning and reporting

7 Present your results

Present your table of values and general rule. Justify your choice of dimensions for the net and cardboard sheet. Explain why your net will make the best possible carton.

imathskids.com.au



Go to imathskids.com.au – the Investigation 12 area contains the Investigation plan and websites that you need to complete this Investigation.

Table of values

Term	1	2	3	4	5	6	7	8	9	10
Height										

Inquiry

Develop and demonstrate to the class a fair test to determine the strength of one container.

Kitchen Band

Bring your kitchen to life!

Materials: Pencils, common household items

Time: 30 minutes



Find more resources at artslive.com

"Music is organised sound". This is a definition which is sometimes given when people are asked to describe what music "is". The way sounds (usually instruments and voices) are organised can be nice to listen to – or really horrible to listen to. Hopefully the sounds you organise today with your family end up sounding good!

In the previous activity [Home Percussion](#), we looked at using your body items from the kitchen to make a percussion song. Then we used rhythms linked with food words, such as Sweet Po-ta-to, Pur-ple Grapes. Have a look through the other rhythms used with the other fruit and vegetables and teach your family how they go. Let's make a family band!!



Prepare

Gather some items from around your house that you like the sound of. Remember percussion instruments can be either hit, scraped or shaken!

Some ideas might be:

- Flipping the pages of a book with your thumb
- Cheese grater and a metal spoon – both hitting and scraping
- Plastic bowl hit with wooden spoon or scraped across the benchtop
- Tapping a saucepan lid with a chopstick

Compose

List the instruments that you will use and write the rhythms. You can use rhythm notation, food words or rhythm words (ti-ti and ta).

Instrument	Rhythm
Example: Kitchen Tongs	□ □ □ Sweet Potato Pur-ple Grape

Kitchen Band

Bring your kitchen to life!

Materials: Pencils, common household items

Time: 30 minutes



Find more resources at artslive.com

Perform

Teach your rhythms to members of your family. See if you can play them at the same time. Musicians who play in groups will often start everyone off by counting "1, 2, 3, 4" so that everyone can start at the same time.

You might find that your rhythms sound messy played all at the same time – take it in turns to work out which rhythms go together well. It will take some experimenting and getting it wrong before it starts to sound good but making music takes time and effort. Don't give up!

Extend

Once your family members can perform their first rhythm well, teach them another rhythm. As the band leader, you could call on people to play their "A" rhythm or their "B" rhythm. See which combinations of rhythms work best!

Budget

Now that you are a band leader, you will need to look after the money for your imaginary family band.

You need to work out how much your band needs to charge to perform a concert.

There are four members who you would like to pay \$400 each.

There is a roadie who helps you set up all of your kitchen equipment/instruments and you will pay them \$200.

You would like to make \$700 on top of all of your other costs.

How much do you need to charge?

Extend

You have a manager, who takes 20% of what you charge for a concert. How much do you have to pay them?

