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議題	核心素養
information 資訊教育	semiotics / expression 符號運用與溝通表達
global ocean 海洋教育	logical thinking / problem solving 系統思考與解決問題
multiculturalism 多元文化教育	cultural understanding / global understanding 多元文化與國際理解
security 安全教育	interpersonal relationship / teamwork 人際關係與團隊合作
life 生命教育	physical and mental wellness / self-advancement 身心素質與自我精進
gender equality 性別平等教育	moral praxis / citizenship 道德實踐與公民意識
morality 道德教育	moral praxis / citizenship 道德實踐與公民意識
information 資訊教育	logical thinking / problem solving 系統思考與解決問題
information 資訊教育	logical thinking / problem solving 系統思考與解決問題
information / technology 資訊教育／科技教育	information and technology literacy / media literacy 科技資訊與媒體素養
information / technology 資訊教育／科技教育	planning and execution / innovation and adaptation 規劃執行與創新應變
international education 國際教育	logical thinking / problem solving 系統思考與解決問題
morality 道德教育	semiotics / expression 符號運用與溝通表達
human rights 人權教育	cultural understanding / global understanding 多元文化與國際理解
information / technology 資訊教育／科技教育	information and technology literacy / media literacy 科技資訊與媒體素養
global ocean 海洋教育	cultural understanding / global understanding 多元文化與國際理解
international education 國際教育	cultural understanding / global understanding 多元文化與國際理解
information 資訊教育	planning and execution / innovation and adaptation 規劃執行與創新應變
information / technology 資訊教育／科技教育	information and technology literacy / media literacy 科技資訊與媒體素養
gender equality 性別平等教育	moral praxis / citizenship 道德實踐與公民意識
life 生命教育	physical and mental wellness / self-advancement 身心素質與自我精進

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議題	核心素養
technology 科技教育	logical thinking / problem solving 系統思考與解決問題
technology 科技教育	information and technology literacy / media literacy 科技資訊與媒體素養
global ocean 海洋教育	cultural understanding / global understanding 多元文化與國際理解
information / life 資訊教育／生命教育	physical and mental wellness / self-advancement 身心素質與自我精進
technology 科技教育	information and technology literacy / media literacy 科技資訊與媒體素養
environment 環境教育	logical thinking / problem solving 系統思考與解決問題
career planning 生涯規劃教育	logical thinking / problem solving 系統思考與解決問題
gender equality 性別平等教育	moral praxis / citizenship 道德實踐與公民意識
outdoor education 戶外教育	physical and mental wellness / self-advancement 身心素質與自我精進
environment 環境教育	cultural understanding / global understanding 多元文化與國際理解
morality 道德教育	moral praxis / citizenship 道德實踐與公民意識
environment 環境教育	moral praxis / citizenship 道德實踐與公民意識
life 生命教育	interpersonal relationship / teamwork 人際關係與團隊合作
outdoor education 戶外教育	physical and mental wellness / self-advancement 身心素質與自我精進
global ocean 海洋教育	planning and execution / innovation and adaptation 規劃執行與創新應變
international education 國際教育	planning and execution / innovation and adaptation 規劃執行與創新應變
security 安全教育	logical thinking / problem solving 系統思考與解決問題
career planning 生涯規劃教育	physical and mental wellness / self-advancement 身心素質與自我精進
environment 環境教育	planning and execution / innovation and adaptation 規劃執行與創新應變
international education / environment 國際教育／環境教育	moral praxis / citizenship 道德實踐與公民意識

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46	<b>The Future of Farming?</b> 農業的未來?	passage 段落 plants 植物
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52	<b>Fresh, Fragrant, and Full of Flavor</b> 新鮮、芳香又風味十足	passage 段落 plants 植物
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55	<b>Eye Twitching: A Case for Physicians or Fortune-Tellers?</b> 眼皮在跳！要找醫師還是算命師?	passage 段落 science 科學
56	<b>News Robots on the Rise</b> 新聞機器人的崛起	passage with numbers 段落 (含數字標示) Internet / technology 網路／科技
57	<b>Natural Genius</b> 師法自然的天才建築	magazine article 雜誌文章 architecture 建築
58	<b>Locking Up CO<sub>2</sub> for Good</b> 永遠鎖住二氧化碳	flow chart 流程圖 environment & conservation 環境與保育
59	<b>Kabaddi, Kabaddi, Kabaddi!</b> 卡巴迪、卡巴迪、卡巴迪!	passage with numbers 段落 (含數字標示) sports 運動
60	<b>Haunted Hangout Spots</b> 好好逛的鬼地方	passage with numbers 段落 (含數字標示) culture 文化

議題	核心素養
multiculturalism 多元文化教育	cultural understanding / global understanding 多元文化與國際理解
technology 科技教育	logical thinking / problem solving 系統思考與解決問題
family education 家庭教育	logical thinking / problem solving 系統思考與解決問題
life 生命教育	physical and mental wellness / self-advancement 身心素質與自我精進
environment 環境教育	planning and execution / innovation and adaptation 規劃執行與創新應變
multiculturalism 多元文化教育	cultural understanding / global understanding 多元文化與國際理解
morality 道德教育	moral praxis / citizenship 道德實踐與公民意識
information 資訊教育	information and technology literacy / media literacy 科技資訊與媒體素養
life 生命教育	physical and mental wellness / self-advancement 身心素質與自我精進
gender equality 性別平等教育	moral praxis / citizenship 道德實踐與公民意識
environment 環境教育	physical and mental wellness / self-advancement 身心素質與自我精進
life 生命教育	physical and mental wellness / self-advancement 身心素質與自我精進
rule of law 法治教育	moral praxis / citizenship 道德實踐與公民意識
life 生命教育	physical and mental wellness / self-advancement 身心素質與自我精進
information / technology 資訊教育／科技教育	planning and execution / innovation and adaptation 規劃執行與創新應變
technology 科技教育	planning and execution / innovation and adaptation 規劃執行與創新應變
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multiculturalism 多元文化教育	cultural understanding / global understanding 多元文化與國際理解
life 生命教育	cultural understanding / global understanding 多元文化與國際理解

# How to Use This Book?

## 1 多樣化主題跨領域 / 學科學習

精編 60 篇多樣化主題文章，讓學生能跨領域、跨學科學習英語閱讀，真正切合 108 課綱精神，拉近學習與生活的距離，增添閱讀樂趣。

UNIT 133 Environment & Conservation

### 33 An Unusual Summer

Extreme heat waves can destroy crops, causing economic losses for farmers.

Western Canada and the Northwestern United States are areas known for their cold, wet climates. However, in the summer of 2021, these areas were hit by an extreme heat wave. It was so intense that it caused cables to melt, the road surface to deform, and car windows to shatter. Hundreds of people died due to the effects of the extreme heat.

Starting in late June and lasting to mid-July, the heat wave set new records for the hottest temperature recorded in many areas. The village of Lytton in British Columbia recorded a high of 49.6 degrees Celsius, the highest temperature ever recorded in Canada. Previously, the temperature in Canada had not exceeded 45 degrees Celsius. The city of Portland, in the US state of Oregon, recorded record-breaking temperatures for three days in a row (as shown in the graph below).

The 10th Hottest Days in Portland, Oregon, from 1940 to 2021

Source: Portland International Airport weather station data, NOAA

環境與保育

UNIT 123 Internet / Technology

### 23 A Parallel Universe

Mark Zuckerberg rebranded the social-media giant Facebook as Meta.

In October 2021, the social-media giant Facebook was rebranded as Meta. Founder Mark Zuckerberg explained the name as being a sign of the company's commitment to realizing the "metaverse." Suddenly the question on everyone's lips was "What on earth is the metaverse?"

The term was first coined back in 1992 by science-fiction author Neal Stephenson in his novel *Snow Crash*. In the novel, the Metaverse is the successor to the Internet. It is a virtual-reality world populated by digital versions of its users. Today, virtual reality, augmented reality, and interactive online spaces are a reality. The idea of a functioning metaverse is no longer a concept reserved for the pages of a sci-fi novel. Soon enough, by combining aspects of social media, online gaming, augmented reality, and virtual reality, the Internet may well evolve into such an immersive digital reality.

According to Zuckerberg, in a future where the metaverse is a reality, "you'll be able to do almost anything you can imagine." You'll be able to "get together with friends and family, work, learn, play, shop, create... In this

The metaverse is likely to be far more transformative than everyone's first the internet.

網路 / 科技

UNIT 108 Education

### 8 Hacking Human Memory

Isn't it frustrating when you learn something in class only to find that you've almost completely forgotten it just a few days? No matter how hard you pay attention while learning the thing, inevitably it disappears over time. The 19th century German psychologist Hermann Ebbinghaus evidently felt the same way, so he resolved to research the matter. Thanks to him, we now have a reliable way to track our memories so that facts you learn actually stick.

To figure out the mechanisms of memory, Ebbinghaus performed some experiments. He gave himself a list of nonsense syllables to learn and tried to recall them after increasingly longer periods of time. He found that, without review, our recollection of learned facts gradually declines as more time elapses. This can be visualized in what is known as the "forgetting curve" (see below).

The Forgetting Curve

教育

## 2 多元體裁 加強閱讀 能力訓練

文章體裁豐富多元，舉凡圖表、網頁廣告與心智圖等，輕鬆學會圖表閱讀技巧，將閱讀知識及能力應用於日常生活中。

UNIT 148 Food

### 48 Such a Waste!

Developed countries are where the problem of food waste is most prevalent.

What percentage of the food produced globally do you think goes to waste each year? Five percent? Ten percent? In fact, it is over 30%! That is 1.3 billion tons, most of it perfectly edible. Think about all the people starving in the world and then look at that figure again. It boils your blood, doesn't it? According to a United Nations report, if just 25% of that wasted food were saved, world hunger could be made a thing of the past.

The worst offenders when it comes to food waste are developed countries such as the United States. The chart below shows just how much of each food category is typically wasted. Wasting so much food doesn't

Food Waste, by Category  
Estimated Amount of Food Waste in the U.S.

\*The scraps of these items are great for composting.

圓餅圖

UNIT 101 Internet / Technology

### 1 Keeping a Daily Record

Daily Thoughts Diary App

The Daily Thoughts Diary App is the most popular and user-friendly diary app on the market. It's available now for all smartphone and tablet operating systems!

FREE VERSION | PRO VERSION - \$1.99

Why use the Daily Thoughts Diary App?

- Record all your most personal daily thoughts and experiences in a private environment. The password protection feature will help keep your secrets safe from prying eyes.
- Never worry about losing your diary entries! The Daily Thoughts Diary App will sync all entries to the cloud, so you can access them even if you've lost or damaged your mobile device. You can also write in the app off-line and sync the next time you get a connection. This way, you can write your entries anytime, anywhere.
- Lots of personalization tools help you decorate the Daily Thoughts Diary App according to your personality. You can add stickers and change the background color and fonts. This way your diary will feel unique to you!
- Find your most important entries easily. There's no need to scroll back through hundreds of pages. The app's tagging and keywords tools make it easy to find the significant days in your life. Tags include "Birthdays," "Friendship Moments," "School Successes," "Best Day of the Month," and many more.

廣告

UNIT 158 Environment & Conservation

### 58 Locking Up CO<sub>2</sub> for Good

Carbon Capture Flowchart

CAPTURE  
CO<sub>2</sub> is captured from a power station/industrial plant before it is released into the atmosphere.

TRANSPORTATION  
The CO<sub>2</sub> is compressed and processed before being transported via pipeline, ship, or truck.

STORAGE  
The CO<sub>2</sub> is piped underground and injected into geological formations.

UTILIZATION  
The CO<sub>2</sub> can be used for agricultural purposes or to produce products such as dry ice, building materials, fuels, and useful chemicals.

Reducing CO<sub>2</sub> emissions is absolutely vital in the fight against global warming. Currently, global annual CO<sub>2</sub> emissions stand at around 35 billion tons—an increase of around 10 billion since 2000. Power generation and heavy industry are major contributors to this figure. Now, there is a method that can be used to drastically reduce the amount of CO<sub>2</sub> that these processes release into the atmosphere. It is called carbon capture, and it is so promising that in 2020, the United States Department of Energy awarded \$72 million in funding to support its development.

Carbon capture is a three-step process. This process is detailed in the flowchart.

流程圖

# 3

## 閱讀混合題與字彙練習題 增進閱讀理解與字彙力

每篇文後編有閱讀混合題與字彙練習題，透過混合題型提升閱讀理解，並藉由字彙練習題確認詞彙理解與運用，完整訓練閱讀與活用字詞能力。

**閱讀理解題**

UNIT 43  
QUESTIONS

- What is this passage about?  
(A) The childhood of René Laënnec.  
(B) Why the stethoscope is the most important medical tool.  
(C) How René Laënnec invented the stethoscope.  
(D) Ways to listen to the heart and lungs.
- Write a sentence from the second paragraph that explains why Laënnec invented the stethoscope. Copy the whole sentence.  
\_\_\_\_\_
- What does the proverb "necessity is the mother of invention" most likely mean?  
(A) New inventions can save us from embarrassing situations.  
(B) When we really need to do something, we find a way to do it.  
(C) Most inventions are made by women, not men.  
(D) Physicians are the best inventors of medical devices.
- Use words and phrases from the passage to complete the following paragraph.  
Laënnec wanted to avoid the (1) \_\_\_\_\_ of placing his ear against women's bodies to listen to their heart and chest. A game played by (2) \_\_\_\_\_ inspired him to invent the first stethoscope. The first version of the stethoscope was not made with (3) \_\_\_\_\_ like the modern versions used today. Laënnec used his invention to research diseases like (4) \_\_\_\_\_.
- Mark the following statements T (true), F (false), or NG (information not given).

Statement	T / F / NG
(1) Laënnec could hear a woman's heartbeat better with a tube of paper than placing his ear on her chest.	
(2) Stethoscopes are used on both humans and animals.	
(3) Some physicians now use electronic stethoscopes.	
(4) Laënnec's original design of the stethoscope is the same design medical professionals use today.	
(5) The word "stethoscope" comes from two French words.	

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選擇題

簡答題

選擇題

填充題

是非題

**字彙練習題**

UNIT 2  
VOCABULARY PRACTICE

**A MATCHING**  
Match the beginnings of sentences on the left with the endings on the right.

_____ 1. Sharks and lobsters	(A) she has become a little chubby.
_____ 2. Clare took the doorknob	(B) inhabit ponds and rivers.
_____ 3. Frogs and trout	(C) and rear of the airplane.
_____ 4. Since Lisa started eating more,	(D) she started on the external ones.
_____ 5. It is easy to spot her in a crowd,	(E) are marine animals.
_____ 6. There are toilets in the front	(F) characteristics of mammals.
_____ 7. Once she had painted the walls inside the house,	(G) as she has a very distinctive haircut.
_____ 8. Hair and warm blood are	(H) and rotated it to the left.

**B COMPLETION**  
Complete the sentences with the words below and change their forms when necessary.

illustrate	species	layer	breed
conserve	downwards	patch	refer

- Tigers need a large area in which to live, hunt, and \_\_\_\_\_. Without that, they could be in danger of becoming extinct.
- This particular area of coral reef has over one thousand different \_\_\_\_\_ of fish as well as numerous kinds of sea turtles.
- To protect the planet from climate change, it is important to both \_\_\_\_\_ resources and use sustainable energy.
- That cake was made in alternating \_\_\_\_\_ of cake, cream, and different kinds of fruit placed on top of each other.
- After realizing she was too high, Mindy decided to climb \_\_\_\_\_ a little way until she felt safer.
- When Peter talks about his father, he often \_\_\_\_\_ to him by his name rather than calling him Dad.
- There is a red \_\_\_\_\_ of skin on my back where it got burned by the sun at the beach.
- During the meeting, Ken used a few graphs to \_\_\_\_\_ his point about the sales team not meeting its targets.

Part 2  
A Rippe-Fourgeaud

Part A 詞意配對題

Part B 字彙選填題



## 1

# Keeping a Daily Record



## Daily Thoughts Diary App

The Daily Thoughts Diary App is the most popular and user-friendly diary app on the market. It's available now for all smartphone and tablet operating systems!

FREE VERSION



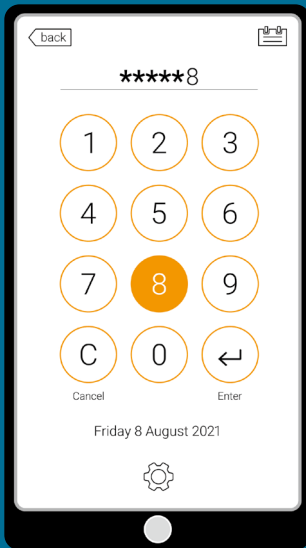
PRO VERSION – \$3.99



### Why use the Daily Thoughts Diary App?

- 1 ● Record all your most personal daily thoughts and experiences in a private environment. The password protection feature will help keep your secrets safe from prying eyes.
- 2 ● Never worry about losing your diary entries! The Daily Thoughts Diary App will sync all entries to the cloud, so you can access them even if you've lost or damaged your mobile device. You can also write in the app off-line and sync the next time you get a connection. This way, you can write your entries anytime, anywhere.
- 3 ● Lots of personalization tools help you decorate the Daily Thoughts Diary App according to your personality. You can add stickers and change the background color and fonts. This way your diary will feel unique to you!
- 4 ● Find your most important entries easily. There's no need to scroll back through hundreds of pages. The app's tagging and keywords tools make it easy to find the significant days in your life. Tags include "Birthdays," "Friendship Moments," "School Successes," "Best Day of the Month," and many more.

## Password Protection to Keep Your Diary Safe



## Import Information From Your Calendar App



## Import Photos and Other Media



5 Here are some of the app's amazing features.

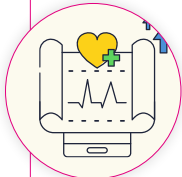
### Free version (ad-supported)



**Daily reminders** prompting you to write so you keep up the habit



**Night mode** so you can read and write comfortably in the dark



**Import information** from your weather, calendar, and fitness apps

### Pro version (\$3.99)



**More than 50 customizable themes** to liven up your diary's look



**No ads** so you don't get distracted while writing



**Import photos and other media** so you can make each entry as rich as possible



**Export your diary** as a Word or PDF file so you can keep your diary backed-up

6 Download the **Daily Thoughts Diary App** today and keep your diary with you wherever you go!

## QUESTIONS

1. What form does the passage take?  
 (A) A review. (B) An invitation. (C) An advertisement. (D) A report.
2. Which phrase in the passage means “**people who want to know your private business**”?

3. Read the following people’s requirements for a diary app. Which features offered by the Daily Thoughts Diary App fulfil those requirements?

Person	Requirement	Relevant Feature
Liam	Likes to write in his diary after lights out, but doesn’t want to damage his eyes.	The app’s _____.
Tony	Likes to re-read his favorite entries often, so needs to be able to find them easily.	The app’s _____. _____.
Maya	Wants peace of mind that if she breaks her phone, she won’t lose her diary.	The app’s ability to _____. _____.

4. Read Laura’s review of the app.

**Laura**, London



*What a terrific app! I love the daily reminders that help me remember to write. And I love being able to add videos of my cats to my entries. It’s such a cool feature!*

What version of the app does Laura most likely have?

5. What is the author’s purpose in the final line? (Download the **Daily Thoughts Diary App** today and keep your diary with you wherever you go!)
- (A) To emphasize how cheap the app is.  
 (B) To emphasize how convenient the app is.  
 (C) To emphasize how cool the app is.  
 (D) To emphasize how new the app is.

## VOCABULARY PRACTICE

## A MATCHING

Match the words or phrases on the left with their definitions on the right.

- |                     |   |
|---------------------|---|
| _____ 1. import     | (A) something that causes someone to remember something                           |
| _____ 2. back up    | (B) a written or electronic piece of information                                  |
| _____ 3. tablet     | (C) a flat electronic device, midway between a smartphone and a notebook computer |
| _____ 4. version    | (D) to continue doing something   |
| _____ 5. reminder   | (E) to make a copy of information on your computer                                |
| _____ 6. entry      | (F) to load images or other files from another source                             |
| _____ 7. distracted | (G) a form of something that is different from other forms of that thing          |
| _____ 8. keep up    | (H) unable to concentrate   |

## B COMPLETION

Complete the sentences with the words below and change their forms when necessary.

prompt	significant	theme	export
decorate	tag	mode	scroll

- Every time James wakes up on Saturday mornings, he stays in bed and ends up \_\_\_\_\_ through social media until noon.
- Many people like to modify their social media pages with different \_\_\_\_\_, which change the colors and pictures that are visible.
- Vicky felt upset because she was the only person not \_\_\_\_\_ in the photos taken during the school trip.
- Although he had enjoyed many important achievements in his life, he felt that winning the Nobel Prize was the most \_\_\_\_\_.
- The thought of a polluted planet filled with plastic waste \_\_\_\_\_ my mother to bring a reusable cup everywhere she goes.
- The park was beautifully \_\_\_\_\_ with all kinds of colorful lanterns, and at night it attracted lots of visitors.
- When Nancy switched to a new smartphone, she forgot to \_\_\_\_\_ the chat history in her old one, so now she is unable to retrieve it.
- Throughout history, various \_\_\_\_\_ of communication have been developed, affecting how we interact.



↑ As the problem of global warming worsens, it could threaten the survival of these cute, charming pinnipeds.

↑ Pinnipeds tend to be chubby and spend a lot of time on land.

## Seals

- No external ears, just holes
- Short, fur-covered front flippers with long claws
- Hind flippers point out and away from the body.
- Fur can be patterned with spots, rings, or patches.
- Communicate through soft grunts
- Usually much smaller than walruses
- Long, sleek bodies, covered in fur
- Webbed hind flippers
- Small "dog-like" heads, no protruding tusks

## Sea Lions

- Small, visible external ears
- Long, skin-covered front flippers with short claws
- Hind flippers can rotate under the body, used for "walking" on land.
- Fur is not patterned.
- Communicate through loud barking and bellowing



4

Unfortunately, as many pinniped species depend on floating ice to rest on and breed, global warming poses a serious danger for them. Indeed, as things stand, their future survival in the wild remains highly uncertain. It is a real possibility that these charming creatures might soon be lost to us forever. What a terrible tragedy that would be.

## 2

# A Flipper-Footed Family

- 1 The pinnipeds are a group of mammals that includes seals, sea lions, and walruses. The word “pinniped” means flipper-footed and refers to the fact that these mammals all have front and rear flippers instead of arms and legs. Unlike other marine mammals such as dolphins and whales, **these mammals** are also able to spend long periods of time on land.
- 2 In addition to flippers, all pinnipeds have long streamlined bodies that allow them to swim through the water efficiently. They also subsist on a diet of fish, squid, and shellfish, regularly diving for long periods in order to hunt. Often inhabiting cold environments, pinnipeds are naturally quite chubby. Beneath their skin is a thick layer of fat, known as **blubber**, which not only helps them conserve heat but also helps them stay afloat.
- 3 So how to tell pinnipeds apart? Walruses are by far the easiest to distinguish as they are larger than most other pinnipeds and furless. But even more distinctive are their long tusks, which protrude downwards from their upper jaws. Seals and sea lions, however, are far more similar in appearance, but they can still be easily told apart as the Venn diagram on the next page illustrates.



↓ Pinnipeds, such as seals and sea lions, have front and rear flippers instead of arms and legs.

※ 本書中譯採意譯，非逐字逐句翻譯，請勿逐字對照。

## Unit 1 Keeping a Daily Record 記錄每一天 P. 12

### 「日思夜想」日記應用程式

「日思夜想」日記 APP 是市場上最受歡迎且最易上手的日記應用程式，即日起在所有智慧型手機和平板電腦作業系統皆可取得使用！

免費版



專業版——\$3.99



#### 選用「日思夜想」日記 APP 的理由？

- 將每天專屬於自己的心得想法和見聞體驗，都記錄在這片隱密的小天地吧。本款 APP 設有密碼防護功能，確保您的私房話不會遭到有心人士窺探。
- 不用煩惱日記條目遺失！「日思夜想」日記 APP 會將所有條目同步儲存雲端，因此即使您的行動裝置遺失或損壞，依然能存取自如。即使離線，您也能盡情書寫，待下次裝置連線後完成雲端同步，讓您得以隨時隨地暢享書寫樂趣。
- 「日思夜想」日記 APP 提供海量個人化工具，使您能夠依照個性裝飾 APP 外觀，此外亦可添加貼圖、改變背景顏色並變換字型。有了這些工具，您的日記將散發獨一無二的個人風格！
- 想回頭找尋重要條目嗎？輕輕鬆鬆！您不需要猛往下滑，在茫茫數百頁中大海撈針。本款 APP 設有標籤和關鍵字工具，讓您輕易找回生命中珍貴的小日子。標籤包含「歡慶生日」、「友誼萬歲」、「學霸是我」、「每月亮點日」等數種，待您探索。

#### 以下介紹本款 APP 的數項精彩功能。

##### 免費版（由廣告贊助）

- 「每日提醒」功能會督促您寫日記，幫助您習慣成自然
- 「夜間模式」讓您在昏暗環境中也能舒適書寫
- 可從天氣、行事曆和健身應用程式「匯入資訊」

##### 專業版（\$3.99）

- 超過 50 種自訂布景主題，讓日記外觀更具生氣
- 無廣告，書寫不受干擾
- 可匯入照片和其他媒體內容，讓您每篇日記都能圖文並茂
- 可將日記匯出為 Word 或 PDF 檔，備份您的日記內容

馬上下載「日思夜想」日記 APP，把您的日記隨身帶著走吧！

## Unit 2 A Flipper-Footed Family 有鰭足的動物家庭 P. 16

鰭足類動物是一群包括海豹、海獅和海象的哺乳動物。pinniped 是「鰭足」的意思，指的是這些哺乳動物身體前後長有鰭狀肢，而非手臂和後腿。與海豚和鯨等海洋哺乳動物不同的是，這些哺乳動物在陸地上也能待很長時間。

除了鰭狀肢，所有鰭足類都有長而流線型的身體，讓牠們能在水中高效游動。牠們也都以魚、魷魚和甲殼類動物維生，往往長時間潛水獵捕食物。鰭足類通常存活在寒冷環境，身材自然相當圓胖。牠們的皮膚下有一層厚厚的脂肪，稱為鯨脂，這不但有助保存熱量，也有助於飄浮。

那麼要如何分辨鰭足類呢？海象是最容易分辨的，因為牠們的體型比其他大部分鰭足類都要大，而且沒有體毛。但更特別的是，牠們有從上顎往下突出的長牙，而海豹和海獅在外形上就相似許多了，不過還是很容易分辨兩者差異，如下頁的文氏圖所示。