

Big Science

A1~B1 ▶ Pearson Education

- ▶ **Big Science** is a 6-level, communicative, inquiry-based science course for Primary English Language Learners.
- ▶ Students will learn to see and understand the world in new ways. They will ask questions, gather information, test ideas, and record their findings.
- ▶ Students learn essential skills for success in school and future life - critical thinking, collaboration, communication and self-direction.
- ▶ Uses the 5E teaching sequence encouraging learners to discover new ideas, test what they mean and evaluate their understanding of concepts.
- ▶ Combines a rich variety of content (print, audio, video) with inquiry-based activities, ensuring students are engaged and motivated.

- ▶ 本系列共六冊，每冊共九個單元，書末附各單元重要科學詞彙表。
- ▶ 課程中具備充足的口語討論、圖表運用及整理研究問題的寫作活動，科學讓英語學習充滿意義與能量！
- ▶ 課程跨越四大學科：物理、生物科學、地球與太空科學及工程科學與科技。
- ▶ 課程以「5E 建構式學習環」教學模式設計，有效協助學生發展其思考、探索及創造的能力。
- ▶ 課程編排結合自學理論與批判性思考，先以提問了解學習目標開始，搭配不斷出現的「Think!」及多元的小實驗並延伸環保概念，培養英語學習的 21 世紀關鍵能力。



For students
Student Book
Workbook

For teachers
Teacher's Book
Active Teach
Picture Cards*
Class Audio CDs**
Posters

* 閃示卡為單面全彩印刷且單字與圖片同一面。
**L1~L3 為一片，L4 為兩片，L5~L6 為三片。

每單元以一個 Big Question 展開，藉由認識字彙、閱讀活動開始進行主題探索。

Unit 3 Living and Nonliving Things

What can you say about living things?

1 Circle the thing that can move on its own.

2 How are the animals alike? Say with a partner.

3 How are the plants alike and different? Say as a class.

Think! Is the teddy bear a living thing?

Lesson 1 • What are living and nonliving things?

Key Words

- living
- nonliving
- grow
- move
- need

I will learn

- about living and nonliving things.
- what living things need.
- how animals are alike and different.
- how plants are alike and different.

1 Read. Circle three living things in the picture.

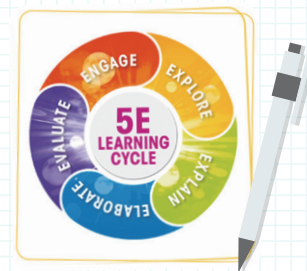
Living Things
Living things **grow**. They get bigger. Living things change. Plants and animals are living things. You are a living thing, too.

2 Read again. Underline two living things with a partner.

3 Look around the classroom. Point to some living things.

4 Look at the pictures. Which is the baby? Which is the parent? Does the baby lion grow? Say with a partner.

Let's Explore! Lab Unit 3 29



5E 建構式學習環

Engage 投入
Explore 探索
Explain 解釋
Elaborate 精緻化
Evaluate 評鑑

英語能力透過自然科學 5E 教學流程提升溝通力與流暢度；學習過程中培養 21 世紀關鍵能力、媒體素養、自我導向學習能力等新世代所需的生存力。

7 Read. Look at the pictures. Circle the nonliving things.

Nonliving Things
Nonliving things do not grow. Nonliving things do not change. Nonliving things cannot **move** on their own. A car is a nonliving thing. A toy is a nonliving thing.

8 Look around the classroom. Point to three nonliving things with a partner.

9 Does a teddy bear grow? Read and trace.

No. A teddy bear is **nonliving**.

Flash Lab
Living and Nonliving Things
Go outside with the class. Point to and say three living things. Point to and say three nonliving things.

Lesson 1 Check Unit 3

Materials

- sheets of white paper
- pencil

Let's Investigate!
How are animals and plants different?

- Look at the animals.
- Compare them.
- Look at the plants.
- Compare them.

dog	bird
tree	daisy

Unit 3 Review

What can you say about living things?

Lesson 1
What are living and nonliving things?
1 Is the girl a living thing? Say. Match the girl to the things she needs.

Lesson 2
How are animals alike and different?
2 How are the animals alike? Circle.
a) They have fur.
b) They have wings.
c) They can fly.

Lesson 3
How are plants alike and different?
3 Answer T (true) or F (false).
a) Plants that have trunks cannot be in a group. T / F
b) All plants are the same. T / F
c) Plants that have flowers can be in a group. T / F

Get It? Quiz Get It? Self Assessment Unit 3 39

Big Science
Book 1

由閱讀開啟知識面學習、思考、課程小實驗、活動與討論，最後進入單元科學實驗。

Language
Arts

Science

Math

Social
Studies

Test
Preparation

Learning
Resources

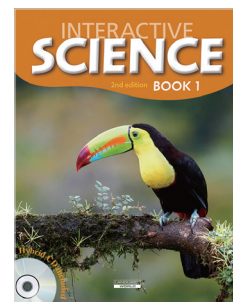
Interactive Science (Second Edition)

A1~A2 ▶ Language World

Interactive Science is a science series, designed to build literacy through science content in primary grades. The series contains carefully selected topics based on student ages, learning abilities, and interests, and takes into account their specific needs.

- ▶ Key science topics in Life Science, Physical Science, Earth/Space Science, and Technology and Society.
- ▶ Emphasize the nature of science and make connections among science, technology, and society with high-interest and real-world content.
- ▶ Motivate students with hands-on activities that inspire students to explore science on their own and to share their own ideas and experiences.
- ▶ Support all levels of students with content-related video clips, e-books, and many more activities on Hybrid CDs.

- ▶ **Interactive Science Series** 是一套符合美國小學科學課綱的跨學科閱讀教材。
- ▶ 此系列共三冊，一冊共有四個科學類主題，一個主題下有五個單元，一個科學活動及主題複習。
- ▶ 每一冊將主題分為 Life Science、Physical Science、Earth/Space Science、Technology and Society 四大主題。每一主題藉由五個小單元做漸進式的探討。三冊下來，經由對四大主題的不斷拓展，讓學生在主題架構下，詞彙及科學知識得到系統化的成長。
- ▶ 透過 HybridCD 中的 eBook 互動教學活動讓學習自然及英文閱讀寫作變得更生動有趣。
- ▶ 本系列提供教學資源如課本解答、每單元學習單及解答、課程大綱、期中 / 期末考題，請洽敦煌書局業務代表。



For students
Student Book + Hybrid CD

UNIT 01 Living Things

What Is a Living Thing?
A plant is a **living thing**.
An animal is a living thing. You are a living thing.

How Do Animals Move?
Animals **move** in many ways. They move to find food. They move to keep **safe**.

KEY WORDS
living thing plants, animals, and humans
move to go from one place to another
safe free from danger

Think!
1 What are living things around us?
2 Divide the things into living things and non-living things.

How do plants get food?
They use sunlight, water, and carbon dioxide(CO₂) to make their own food.

CHECK Your Understanding

Answer the questions.

1 What is the main idea of the story?
☐ plants
☐ animals
☐ living things

2 Which is a living thing?
☐ ☐ ☐

3 Which is true about living things?
☐ Plants move in many ways.
☐ An animal is a living thing.
☐ Animals move only to keep safe.

4 How do animals find food?
☐ by playing
☐ by moving
☐ by sleeping

Vocabulary

Match the words with their meanings.

1 safe • ☐ plants, animals, and humans that are alive
 2 living thing • ☐ to go from one place to another
 3 move • ☐ free from danger

CRITICAL THINKING

Divide the things into living things and non-living things. Write them in the correct places and add your own words.

Living thing	Non-living thing

pencil rabbit tree table

SCIENCE ACTIVITY

How Does a Plant Grow?

Objective
In this activity, you will find out about how a seed becomes a plant.

Materials
☐ 2 paper towels
☐ small, clear cup
☐ bean seed
☐ water
☐ yarn
☐ ruler

Procedure
 1 Fold a paper towel and place it around the inside of the cup.
 2 Make the second paper towel into a ball, and place it inside the cup to fill the space.
 3 Place the bean seed about 3 cm from the top of the cup, between the paper towel lining and the cup's side.

4 Pour water into the cup to soak the paper towels completely.
 5 Set the cup in a warm place, and leave it there for five days. Be sure to keep the paper towels moist.
 6 Use the hand lens to observe the seeds daily for five days. Measure the growth of the roots and shoots with the yarn. Use the ruler to measure the yarn. Record your observations on your chart like the one below.

	Day 1	Day 2	Day 3
How a Seed Looks			

Draw Conclusions
What are the stages in the change of a bean seed?

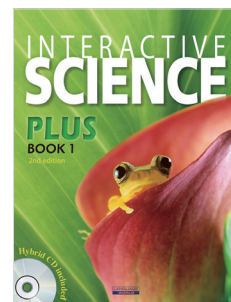
Interactive Science Plus (Second Edition)

A2~B1 ▶ Language World

Interactive Science Plus is an engaging, multimedia science program series. It is designed to increase students' literacy by having them read and learn about science.

- ▶ Students will be interested to learn about carefully selected science topics.
- ▶ Students can build vocabulary knowledge about science through the dictionary definitions and various exercises.
- ▶ Students can improve their critical thinking skills by using the graphic organizers and pictures in the units.
- ▶ Students can watch video clips, read e-books, More Info information, and do various other exciting activities on the hybrid CDs.

- ▶ **Interactive Science Plus** 是一套符合美國小學科學課綱的跨學科閱讀教材。
- ▶ 此系列共三冊，延續 **Interactive Science**，將主題更聚焦在生命科學、物理、地球及太空科學。經由對三個主題的不斷拓展，無論是在主題詞彙及科學知識上都可以得到螺旋式的學習成長。
- ▶ 著重大自然並將自然與科技和社會連結，課程設計強調學生與真實世界生活接軌。
- ▶ 透過 HybridCD 中的 eBook 互動教學活動讓學習自然及英文閱讀寫作變得更生動有趣。
- ▶ 藉由實作活動鼓勵學生探索科學領域，並和同儕分享意見和經驗。
- ▶ 五單元一複習，練習題型涵蓋閱讀、聽力、寫作與口說，讓學生了解自己各個技巧的學習進度和對於該主題下的科學知識理解程度。
- ▶ 本系列提供教學資源如課本解答、每單元學習單及解答、課程大綱、期中 / 期末考題，請洽敦煌書局業務代表。



For students
Student Book + Hybrid CD

Language
Arts

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LIFE SCIENCE
01
UNIT

A Home for All

What Is a Biome?

Scientists sometimes call Earth Biosphere 1. Our biosphere is divided into **biomes**. Biomes are very large areas that have **particular** kinds of plants and animals. Some biomes are hot, others are cold. Some are wet, others are dry. Biomes on land are mostly **determined by climate**. Earth's biomes can be classified into five major groups – **aquatic** biomes, deserts, forests, grasslands, and tundra.

What Is a Habitat?

There are many different, smaller homes within a biome. Some animals live in the tops of trees. Others live **underground**. Some animals live in tidal pools. Others roam mountainsides. The special place in which an animal lives is called its **habitat**. Most habitats contain a variety of plant and animal life.

VISUAL THINKING

There are many different habitats within a biome. Look and fill in the blanks using the word box.

Earth's Biomes

Starfish live in _____	Moles live _____	Koalas live in _____
the tops of trees	tidal pools	underground

SUMMARY

Listen and write the words.

Main Idea The Earth's biosphere is divided into _____, which contain many different _____.

Details

- Biomes on land are mostly determined by _____.
- Earth's biomes can be _____ into five major groups.
- There are many _____ habitats within a biome.

UNITS
01-05
REVIEW 1

READING

Read and answer the questions. (1-3)

1 Which sentence best describes the picture?

a. There is only one food chain in the picture.
b. It shows one of Earth's biomes, tundra.
c. There is only one population in the picture.
d. It shows a community.

2 Which sentence does NOT fit in the passage?

Most interactions between plants and animals are complex. A food chain is a simple way of looking at feeding links. **a.** Food webs show how several food chains in an ecosystem are linked. **b.** Food webs can be large. **c.** Food chains are in all of Earth's habitats. **d.** If parts of a food web are removed, populations can get out of balance. Plants or animals can become endangered.

3 Which is NOT one of the human behaviors that destroy Earth's ecosystems?

Humans often upset the delicate balance of Earth's ecosystems. Many wild places are cleared to make way for farmland or cities. Forests are felled for timber and paper. Oceans are overfished, and waterways are polluted by waste from factories.

a. clearing many wild places to make way for cities
b. planting trees to make paper
c. overfishing to make money
d. throwing garbage into rivers

LISTENING

Listen and answer the questions. (4-5)

4 What is the passage mainly about?

a. how animals hibernate during the winter
b. how animals migrate during the winter
c. how animals' body features help them in harsh habitats
d. how animals deal with seasons

5 Which is NOT mentioned in the passage?

a. b. c. d.

WRITING & SPEAKING

Describe the pictures using the word box. Then talk about them. (6-7)

6 The big fish eats _____.

7 Some animals _____.

the bigger fish hibernate a food chain

Exploring Science 2019

Grades K~5 ▶ National Geographic Learning

Developed specifically for the Next Generation Science Standards (NGSS), National Geographic *Exploring Science* covers 100% of the NGSS for Grades K-5 to ensure students are mastering the Performance Expectations. Now with improved 3-Dimensional lesson support, more hands-on activities for students, enhanced assessment opportunities, and our MindTap digital platform including interactivity to support 3D learning.

- ▶ Introduce real-world science practices with National Geographic Explorers, scientists, and photographers
- ▶ Wide variety of lesson types keep students engaged in 3D learning from different perspectives
- ▶ Teacher support for phenomenon-based lessons, assessment, literacy integration, and differentiation to meet all student needs.

▶ 本系列為美國小學 Science 教科書，涵蓋美國 NGSS 新世代科學標準的三大面向：學科核心概念（Disciplinary Core Ideas）、跨領域概念（Crosscutting Concepts）及科學與工程實務（Science and Engineering Practices），幫助學生深入不同學科領域，累積相關知識。

▶ 全系列共六個級數，每級數涵蓋四大科學主題（自然科學、生命科學、地球科學及物理），Grade K 提供 Big Book 版，一主題一冊。

▶ 每冊透過 NG Explorer、Science Career 及 Stories in Science 環節介紹不同的科學家，STEM 環節引導學生設計實驗，My Science Notebook 鼓勵學生設計自己的科學實驗記錄本，最後再以 Check in 環節引導學生檢視學習成果。

▶ MindTap 線上學習平台提供課本 eBook、虛擬實驗室、互動練習及影片。團訂用戶可申請 MindTap 教師帳號，享有考題資源，請洽敦煌書局業務代表。



For students

Student Edition (Gr. 1~5)
Big Book (Gr. K)
Student Edition MindTap*

*Special Order Item，訂購請洽敦煌書局業務代表。

For teachers

Teacher's Edition



More Info



Real Science. Real World. Right Now.

Investigate

Root Growth

How do roots grow? You have seen how leaves and stems respond, or react, to light. Now you will investigate how roots respond.

Materials

- 1 tape
- 2 plastic cups
- 8 paper towels
- 2 bean seeds
- 1 spoon
- 1 ruler
- 1 water
- 1 clay

- 1 Label the cups. Put seeds and towels in the cups.
- 2 Use the spoon to add water to the paper towels. Do this every other day. Watch for the seeds to sprout. Draw what you see.
- 3 Wait for the roots to grow to 1.5 cm long. Put Cup A on its side. Use the clay to hold the cup in place.
- 4 Water the plants every other day. Observe how the roots grow. Record your observations.

Wrap It Up!

1. How did the roots of the plants grow at first?
2. How did the roots in Cup A change when the cup was on its side?
3. How do roots respond to change in direction? How might this help the plant survive?

STEM

SPACE STATION PROJECT

Research Project: Eating Under Water and in Space

You know that animals use body parts to take in food. How do research projects find out how some underwater animals take in food? Then learn how astronauts eat and drink in space. Astronauts train under water. It is something like being in space. Astronauts get used to eating and drinking in very low gravity.

The Challenge

Find out how an underwater animal gets food. Learn how astronauts eat and drink in space. Then share what you learn.

- 1 Select a topic.
- 2 Plan and conduct research.
- 3 Prepare your report.
- 4 Share.

Work with your team. Prepare a presentation. Then share your posters with the class.

Think Like a Scientist

Look for Patterns

Many animal parents help their young survive. Many young animals need food and protection. They also might need help moving from place to place. Look at the pictures. Think about how each shows how parents help their young survive.

Legends

- Leopards
- Polar bears
- Giant pandas

Meroposers

Wrap It Up!

1. Tell what is happening in each of these pictures.
2. How do the parent and young work together to help the young survive?

Science Career

Astronomer

Knicole Colón knew when she was 12 years old that she wanted to study astronomy. An astronomer is a scientist. Astronomers study objects in space. They study the moon and sun. They also study stars and planets. Knicole collects information about stars and planets. She uses tools such as telescopes. Telescopes help her make observations. Knicole thinks there may be other planets like Earth. She hopes that her work will help discover them.

Knicole Colón is an astronomer. She wants to discover new planets that may support living things.

Knicole looks through different telescopes. Some are located on tall mountains and in other beautiful places.

Exploring Science 2019
Grade 1

Inspire Science

Grades K~12 ▶ McGraw-Hill

Inspire Science helps students build innovative thinking skills by empowering them to explore and learn from our world's amazing natural phenomena in exciting, hands-on ways, and prepare students for a future full of STEM opportunities.

- ▶ Proven and research-driven 5E instructional model enhanced, to align with the demands of the NGSS for three-dimensional, phenomena-driven learning.
- ▶ Our close collaboration with the NGSS writers, and educators just like you has resulted in a tried-and-true approach to NGSS that you'll love.
- ▶ 24/7 professional learning when you need it, with an expansive library of relevant, self-paced, professional learning courses to support implementation, instructional progression and mastery.
- ▶ Open educational resources for high school series offers the opportunity to curate your own content. With our partners such as The Smithsonian, SpongeLab, and PhET you are able to find the resources you need when you need them.

Inspire Science 藉由引領學生從自然現象、手作活動中培養創新思考能力，進而成為新世紀所需 S T E M 人才！

- ▶ 基於研究背書之 5E 教學模式而設計（如下圖），有助實踐 N G S S 課綱中之 3D 教育架構、以及現象式學習
- ▶ 與 N G S S 課綱設計學者及教育工作者緊密合作，共同創作，提供經考驗證明為可信的方案，實踐 N G S S 課程目標，是教師們最有力的後盾
- ▶ 豐富教師資源庫，協助教師以個別步調隨時隨地進行自我專業能力培訓
- ▶ 與 The Smithsonian、SpongeLab、PhET 等權威機構合作，老師可隨時輕鬆取得所需的額外教學資源



5E 建構式學習環

- Engage** 投入
- Explore** 探索
- Explain** 解釋
- Elaborate** 精緻化
- Evaluate** 評鑑



For students

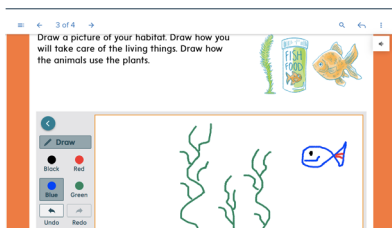
- Student Edition & Inquiry Journal
- Reading Essentials
- Student Digital Center
 - Lesson Videos
 - Biographies & Primary Sources
 - Foldables™
 - Biographies
 - Glossary
 - Audio Student Edition

For teachers

- Teacher Edition
- Answer Keys
- Chapter Tests & Lesson Quizzes
- Teacher Digital Center
 - Correlations to standards
 - Ready-to-go lesson plans
 - Robust reporting system
- eBooks
- Differentiated Instructions
- Lesson videos & ePresentation
- Hands-on Projects & eActivities
- Hundred of Resources
- eAssessments & Assignments
- Professional Development

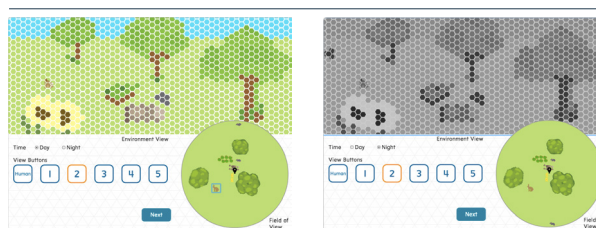
Digital Resource: ConnectED

資料收集與繪圖整理



Example: eActivities- Drawing Tools

模擬實驗

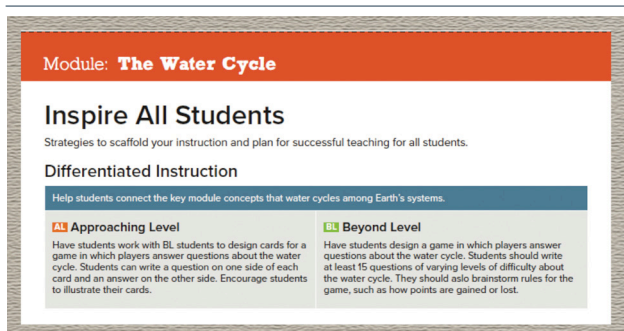


Simulations: How Do Animals See?



More Info

差異化教案



Differentiated Instruction and English Language Support

手作實驗組



Collaboration Kits

Language Arts

Science

Math

Social Studies

Test Preparation

Learning Resources

Glencoe iScience

Grades 6~12 ▶ McGraw-Hill

Glencoe iScience is the most effective, innovative, and inspiring middle school science curriculum that meets both NGSS and local science standards. For educators who would like to leverage technology to drive personalized student success while engaging and motivating students with hands-on, project-based activities and real-world applications, Glencoe iScience is the best partner.

- ▶ With *Glencoe iScience* you are equipped to meet science standards performance, integrate Science and Engineering Practices into science classroom, apply the Disciplinary Core Ideas (DCIs) and correlate the lessons to NGSS.
- ▶ With PBLs you can help students develop problem-solving skills, the understanding and application of engineering design process, 21st century research competency and confidence, motivation, and excitement about science.
- ▶ Use diverse lab activities, like launch labs, minilabs, inquiry labs, virtual labs, to bring science to life.

Glencoe iScience 是一套創新、有效，且能讓學校達到 NGSS 中學階段的標準。對於喜歡善用科技驅動學習動機的老師來說，這是一套結合實體與數位的整合學習方式，巧妙結合自然科學理論、手作活動、以及專案式學習 (PBL) 於生活應用情境，協助教師創造彈性且能客製化的環境，引領學生提升興趣！

- ▶ 藉由 *Glencoe iScience*，可以達到自然科學課綱的要求、結合工程實務於課室、落實應用學科核心構念 (Disciplinary Core Ideas)，與 NGSS 緊緊扣合。
- ▶ 透過專案式學習 (PBL)，可以培養學生問題解決能力、工程科學應用能力、21 世紀核心競爭力，提升學生學習自然科學的信心及動機。
- ▶ 運用多元的實驗活動，如 launch labs、minilabs、inquiry labs、virtual labs 等等，將生活帶進課堂，讓自然科學變得更活潑有趣，透過體驗，讓學習更深化。



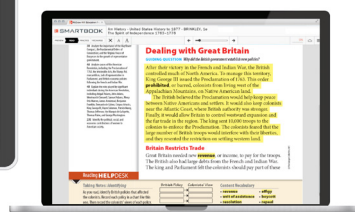
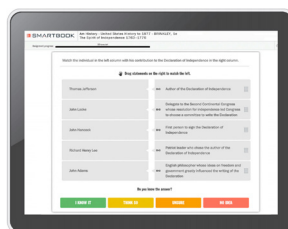
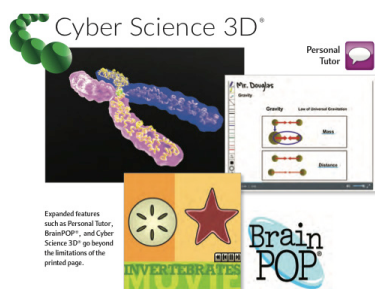
For students

Student Edition & Science Notebooks
Reading Essentials
Student Digital Center
• Lesson Videos
• Audio Student Edition
• eActivities: Personal Tutor, BrainPOP®, Cyber Science 3D®, eAssessment
• SmartBook®

For teachers

Teacher Edition & Science Notebooks
Reading Essentials
Lab Manuals
Answer Keys
Teacher Digital Center
eBooks
Correlations to standards
• Ready-to-go lesson plans
• Robust reporting system
Differentiated Instructions
Lesson videos & ePresentation
Lab Activities
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Professional Development

Digital Resource: ConnectED



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All *Glencoe iScience* titles come with built-in revolutionary adaptive technology, LearnSmart® + Smartbook.

LearnSmart® determines precisely which learning objectives a student has grasped and provides personalized instruction, practice.

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Glencoe iScience 全系列皆有適性化學習系統 LearnSmart®，透過個人學習數據精準分析學習者之弱點，並給予客製化的學習引導。

Smartbook 是結合 LearnSmart® 科技的適性化電子書，會依據課文內容重要性及個別學生學習狀況，將課本內容以不同顏色標出，透過閱讀與練習交替的方式蒐集學習數據，循序漸進地引導學生掌握學習內容。

Elevate Science

Grades K-8 ▶ Pearson Education

Exploration and inquiry is at the heart of science. **Elevate Science** is a complete K-8 blended print and digital science program based on the Next Generation Science Standards. **Elevate Science** encourages all students to explore the world around them and take ownership of their own learning. It fuels curiosity and sparks interest, helping students to think like a scientist, so they are ready for a world of discoveries and innovation.

► Elevate Thinking

Encourage students to work like scientists and engineers. Phenomena-based inquiry develops general science ideas through problem solving and creative solutions.

► Elevate Learning

Integrate Scientific and Engineering Practices, Crosscutting Concepts (CCC), and Disciplinary Core Ideas (DCIs). Three-dimensional learning turns young learners into powerful STEM problem solvers.

► Elevate Teaching

Scaffolding, ELD, differentiated instruction, and an improved 5E lesson model provide all the support you need for successful teaching practices.

► Digital Resource

PearsonRealize.com provides easier navigation, bigger type, and child-friendly buttons for young learners. Student avatars make learning fun and age appropriate! Teachers can easily customize curriculum, upload open resources to lessons and access student data.

Elevate Science 是本系列涵蓋美國中小學 K-8 的一套完整性的自然科教材，完美結合紙本與線上學習資源，並根據美國最新科學標準 (NGSS) 編寫的，在課程上是會以現實世界的相關的優秀的人才來引導每個單元，讓學生學習概念不會存在陌生感。另外，科學的核心主要是在探索和探究，這套課程的設計就是希望學生能探索周圍的世界，並自主學習，它激發了人們的好奇心及興趣，讓學生像科學家一樣思考。

• 提升思考力

以最新教育趨勢 Phenomena-Based Learning 為核心概念，設計主題式學習課程，同時結合 STEM 活動培養思考力及解決問題的能力。

• 提升學習力

將科學與工程實務 (Scientific and Engineering Practices)、跨學科概念 (Crosscutting Concepts)、學科核心概念 (Disciplinary Core Ideas) 等三面向的學習融入教學中，強化深度理解及內容應用，讓學習者變成強大的 STEM 問題解決者。

• 提升教學力

提供鷹架支持、英語發展課程 (ELD)、差異化教學，及和 5E 課程模型等資源，協助實踐成功的教學。

• 數位資源

PearsonRealize.com 提供完整線上教學及學習資源。學生介面友善，輕鬆搜尋學習內容，虛擬化身提高學習樂趣。老師可輕易根據需求客製課程，上傳額外的教學資源，並透過 LMS 輕鬆掌握學生學習狀況。



For students

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