

OXFORD

New Mastering  
Science

新編

基礎科學

領先教學新趨勢

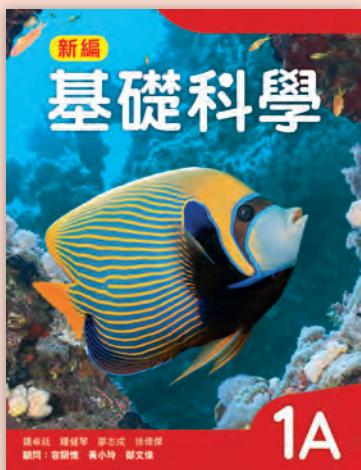
輕鬆銜接DSE



# 學生配套 Student's package

## 1 課本 Student's book

中一級



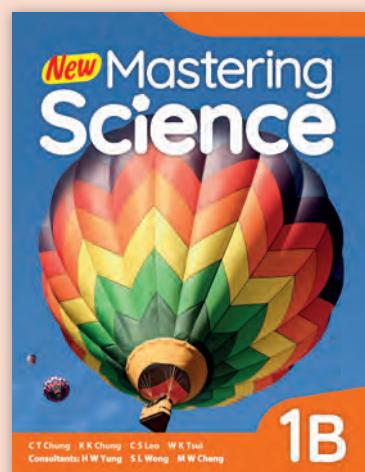
科學入門  
Introducing science



水  
Water



觀察生物  
Looking at living things



細胞、人類生殖與遺傳  
Cells, human reproduction and heredity



能量  
Energy



物質的粒子觀  
Matter as particles

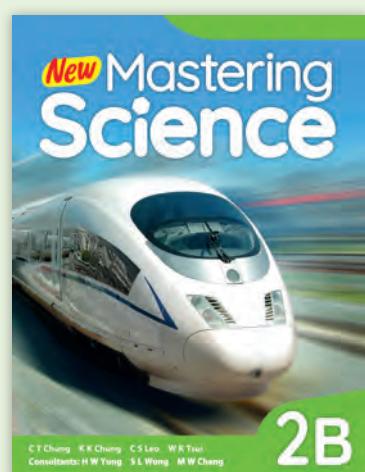
中二級



生物與空氣  
Living things and air



電的使用  
Making use of electricity



常見的酸和鹼  
Common acids and alkalis

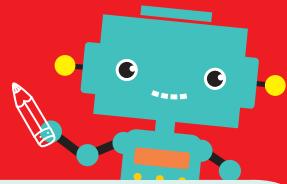


環境的察覺  
Sensing the environment



力和運動  
Force and motion

# 專業編寫 信心之選



中三級



12



健康的身體  
A healthy body



13



從原子到材料  
From atoms to materials



14

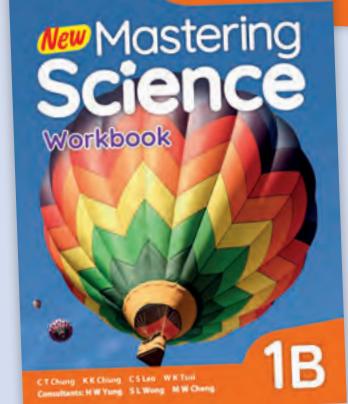


光、顏色和光譜以外  
Light, colours and beyond

## 2 作業 Workbook



1B

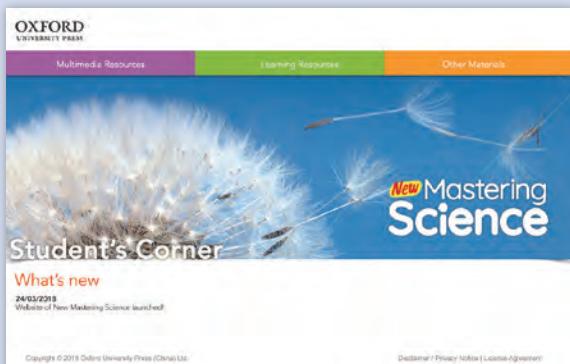


1B

## 3 互動電子書 Interactive e-Book



## 4 牛津科學網 OUP IS web



<https://trc.oupchina.com.hk/science>

# 教師配套 Teacher's package

- 1 課本（教師用書）  
2 作業（教師用書）  
3 銜接 DSE 教學手冊

新

## 科學技能資源套

- 4 科學過程技能 1：觀察  
5 科學過程技能 2：分類  
6 科學過程技能 3：設計探究實驗  
7 科學過程技能 4：進行實驗  
8 科學過程技能 5：推論  
9 科學過程技能 6：傳意  
10 科學語文訓練

新

## STEM 資源套

- 11 科學 DIY  
12 設計與製作  
13 3D 打印應用  
14 生活中的 STEM  
15 STEM 互動電子教室

新

## 持續評估資源套

- 16 課前預習工作紙  
17 分段小測  
18 單元測驗  
19 上學期考試  
20 期終試  
21 試題庫  
22 科學新聞檔案

分程度 1 及 2

新

新

- 23 課堂實用英語  
24 課本小詞典  
25 課堂工作紙  
26 小六升中一銜接手冊  
27 中三升中四銜接手冊

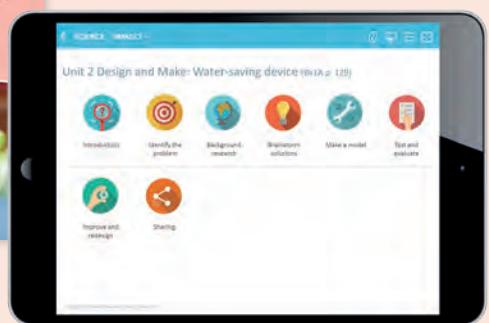
## 教學資源

新

- 28 互動電子書  
29 互動課堂活動  
30 e 評估練習  
31 STEM 互動電子教室  
32 VR 虛擬考察  
33 AR 立體模型  
34 科學技能訓練影片  
35 STEM DIY 影片  
36 STEM 設計與製作影片  
37 課堂活動影片  
38 科學魔術影片  
39 電子書科學增潤影片

- 40 實驗影片  
41 教學光碟  
(包括簡報、動畫等)  
42 試卷製作程式  
43 網上教學資源中心  
44 網上學生園地  
45 網上評估

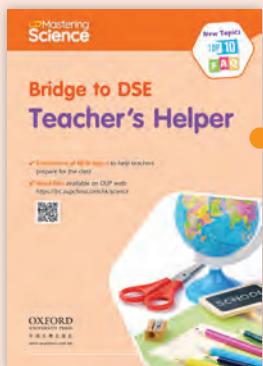
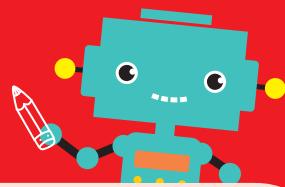
⋮



資源豐富，未能盡錄，詳情  
參閱「e 教學資源」小冊子



# 支援強大 精益求精



- 1 Student's Book (Teacher's Edition)
- 2 Workbook (Teacher's Edition)
- 3 Bridge to DSE Teacher's Helper

## NEW Skill Pack

- 4 Science Process Skill 1 : Observing
- 5 Science Process Skill 2 : Classifying
- 6 Science Process Skill 3 : Designing investigations
- 7 Science Process Skill 4 : Conducting practicals
- 8 Science Process Skill 5 : Inferring
- 9 Science Process Skill 6 : Communicating
- 10 Science Writing Skills

## NEW STEM Pack

- 11 Science DIY
- 12 Design and Make
- 13 3D Printing Guide
- 14 STEM in Life
- 15 STEM e-Classroom

## Continuous Assessment Pack

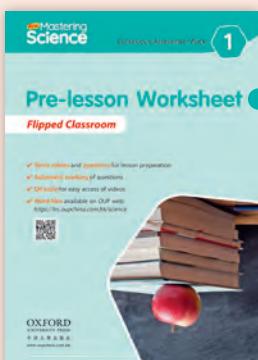
- 16 Pre-lesson Worksheet
  - 17 Section Test
  - 18 Unit Test
  - 19 First Term Exam
  - 20 Final Exam
  - 21 Question Bank
  - 22 Science News File
- Graded: Level 1 & 2  
NEW

## Language Across Curriculum (LAC) Pack

- 23 Classroom English
- 24 Mini Science Dictionary
- 25 Lesson Worksheet
- 26 P6 to S1 Bridging Book
- 27 S3 to S4 Bridging Book

## e-Learning Resources

- 28 Interactive e-Book
- 29 Interactive e-Activities
- 30 e-Assessment
- 31 STEM e-Classroom
- 32 VR Virtual Tour
- 33 AR 3D Model
- 34 Skill Video
- 35 STEM DIY Video
- 36 STEM Design and Make Video
- 37 Activity Video
- 38 Science Magic Video
- 39 e-Book On-page Video
- 40 Experiment Video
- 41 Teacher's DVD (PowerPoint, Animation, etc.)
- 42 Test Paper Setting Program
- 43 Online Teaching Resource Centre
- 44 Online Student's Corner
- 45 Online Assessment
- ⋮



# 課本特色

## 1 輕鬆應付新課題

以精簡課文闡述新課題，例如：

1B 第 4 課	DNA
1B 第 5 課	熱傳導 Heat transfer
2B 第 11 課	力與運動 Force and motion

課文簡潔，深入淺出

For lesson 11  
Watch this and answer  
the questions.  
Pre-lesson  
Video 11.1

### 11.1 Motion

Objects stop and move, sometimes fast and sometimes slow. They are said to be in **motion** (Fig 11.1). We will learn how to describe the motion of an object in this section.

Fig 11.1 Objects in motion

**A Average speed**

Mr Mouse is running after Miss Elephant (Fig 11.2). Can he catch her?

Fig 11.2 Who runs faster?

To answer this question, we need to know their **speeds**. The speed of an object tells us how fast it moves. A common unit of speed is **metre per second (m/s or m s<sup>-1</sup>)**.

For example, an object moving with a speed of  $5 \text{ m s}^{-1}$  travels  $5 \text{ m}$  in  $1 \text{ s}$ . The higher the speed, the longer the distance travelled in the same time period.

活動教學，有趣易明

1B 第 4 課 DNA



57

2B 第 11 課 運動 Motion

## 2 強化科學過程技能 (Science process skills)

**Skill highlights**  
Drawing a histogram

Cells, human reproduction and heredity

4

1 Use rectangular bars of equal width to represent the data. Leave a gap between the bars.

2 Mark the dependent variable on the vertical axis.

3 Choose an suitable scale and make full use of the graph paper.

4 Write a title for the histogram.

Distribution of foot lengths in a group of adults

5 Number of adults

6 Foot length (cm)

7 Mark the independent variable on the horizontal axis. Use a break symbol (//) if part of the axis is omitted.

試一試！

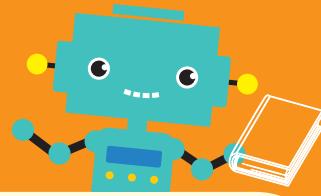
Skill Video 4.2

67

- **技巧訓練站 (Skill highlights)** 精選科學過程技能，訓練學生進行科學探究的技巧
- **附影片**，解說清晰

1B p. 67

# 緊貼課程 成效突顯



## 3 培育 STEM 技能

**科學 DIY STEM**

**磁浮列車**

磁浮列車可以在空中，比傳統火車行駛得更快。試用下列的簡單材料製作一個磁浮列車模型。

材料：鐵質吸盤、鐵片、雙面膠、透明膠片、膠水、剪刀。

- 1 將鐵質吸盤和鐵片黏在一起。
- 2 將鐵質吸盤和鐵片，製成路軌。
- 3 裝上輪子。
- 4 將列車放在路軌上時，會漂浮在上方。

問題：

- 1 磁浮列車後，有哪些力作用於列車上？
- 2 要列車移動得更順暢，應怎樣修改列車的設計？

2B p. 203

**Science DIY STEM**

**Liquid timer**

Sand timers were commonly used in the old days. We can make a similar timer using liquids of different densities. Do you want to try making one?

**Materials:**

- 1 plastic bottle with cap (preferably straw (5 cm long))
- 2 water
- 3 food colouring
- 4 tape (pink dry)
- 5 straw

- 1 Be careful when using the cutter blade!
- 2 Glue two caps together. Wrap the rim with tape. Make two holes in the caps to allow a straw to pass through each of them.
- 3 Fill up one bottle with oil and another with water. Add food colouring to the water. Tightly screw the cap on to the bottle of water.
- 4 Quickly flip the bottle and screw the cap on to the bottle of oil. Your liquid timer is finished!

DIY Video 6

QR code

1B p. 196

DIY Video 6

QR code

- 科學 DIY (Science DIY) 提供 STEM 創意活動，讓學生利用簡單材料，製作科學小玩意
- 附影片
- STEM 資源套附詳盡工作紙

**Design and Make STEM**

**Water-saving device**

Jenny and Paul were comparing their water bills. Jenny found that her family's water consumption was higher than Paul's.

Design and make a water-saving device that can be fixed to a tap. Present your design to the class. Evaluate it in terms of:

- choice of materials
- how easy it is to set up
- efficiency in water flow control

How can I reduce water consumption?

Try installing water-saving devices to the faucet!

1A p. 129

## 4 融入統一概念 (Unifying concepts)

**統一概念 變化和恆常**

在水循環中，雖然水的物態不斷在液態和氣態之間變化，但地球上水的總量維持不變。

p. 198

1A p. 89

扼要列出與課文相關的統一概念，詳細解說設於書末。

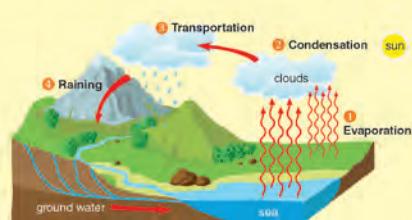
### 3 Change and constancy

The natural world is continually **changing**. However, some properties of objects and processes remain unchanged or **constant**.

#### Example

Unit 2: Water cycle (Bk 1A p. 89)

Water keeps **changing** between liquid water and water vapour. However, the total amount of water on Earth remains **constant**.



# 課本特色

## 5 提高學習動機



- 加插科學魔術，內容有趣富挑戰性
- 附魔術拆解影片



怎樣做？

1B p. 180-181

## 6 鼓勵自主學習

**Self test**

**Section A (1 mark each)**

1 The figure below shows the energy conversion of an electric fan.

What is the efficiency of the fan in converting electrical energy to the kinetic energy of the blades?

A 0%    B 35%    C 65%    D 100%    [ ]

2 Which of the following statements about solar energy *is/are* correct?

(1) Solar energy will run out soon.  
(2) A solar power station does not produce carbon dioxide when generating electricity.  
(3) A solar panel absorbs thermal energy to generate electricity.

A (1) only  
B (2) only  
C (1) and (3) only  
D (2) and (3) only    [ ]

**Section B (7 marks)**

3 Seven people go barbecue. They place some food wrapped in aluminium foil beside the burning charcoal.

a By which heat transfer processes is thermal energy mainly transferred from the fire to positions above it? (2 marks)

b Consider the food wrapped in aluminium foil.

i Can it be heated by convection effectively? Explain briefly. (2 marks)

ii Can it be heated by radiation effectively? Explain briefly. (2 marks)

iii Why is the food wrapped in aluminium foil? (1 mark)  
Aluminium foil is a good \_\_\_\_\_ It ensures the food to be heated evenly.

1B p. 138

自我評核 (Self test) 提供評估練習 (答案附於書末)，讓學生自行評核所學

綜合練習 (Revision exercise) 收錄 TIMSS 及 PISA 題目，有效評核學習成效

### PISA 2006

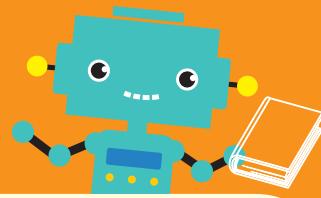
- 6 把一片質量為 2.0 g 的大理石浸在醋中。一天後，把大理石片拿起和弄乾。大理石片的

### TIMSS 2015

- 1 Water exists as a solid, liquid, or gas. Which of the following is a solid?
- A Steam  
B Ice cube  
C Cloud  
D Raindrop

2B p. 60

1A p. 140



## 7 活用科技 (詳情參閱「e教學資源」小冊子)

### a 翻轉課堂



- 課前預習 (Pre-lesson task)  
提供影片及網上練習，幫助學生備課
- 即時批改答案，老師亦可查閱學生表現

### b VR虛擬考察



運用VR技術，讓學生使用流動裝置進行360°虛擬考察，恍如置身現場

### c AR立體模型



- 透過AR技術把平面影像立體化，幫助學生理解抽象概念
- 開啟電子書內鏡頭，對準課本頁面，立體模型立即呈現眼前

# 作業特色

## 1 分程度 (1 及 2)

**Level 1**

I Fill in the blanks (1 mark each)

Fill in the blanks below with the words given.

air atoms empty spaces mass molecules particles randomly

- Matter is anything which has mass and takes up space.
- In the particle theory, the particles are moving randomly all the time.
- In the particle theory, there are empty spaces between the particles.
- Gold is made up of particles called gold atoms.

II True or false questions (1 mark each)

**Level 2**

I Multiple-choice questions (1 mark each)

1 The diagram below shows three drawing pins P, Q and R stuck along three rods made of different materials. Which of the following correctly describes the sequence of drawing pin falling?

A P → Q → R  
B P → R → Q  
C Q → R → P  
D R → P → Q

## 2 分段練習分拆小節

方便老師安排家課，更有效跟進評核

分段練習

4.3A 漢傳

II 填充題 (每題1分)

從提供的詞彙選出答案，填在橫線上。

A C G T 雜基配對 密碼 雙螺旋 遺傳

- 生物的性狀由一代傳給下一代的現象稱為 遺傳。
- DNA的外型像一把螺旋形的梯子，這結構稱為 雙螺旋結構。
- A, T, C 和 G 是DNA上的鹼基。\_\_\_\_只與G配對。\_\_\_\_只與T配對。這個鹼基的配對模式稱為 鹼基配對。

III 是非題 (每題1分)

請將以下句子，正確的在空格內加上「✓」，不正確的加上「✗」。

- 分子的DNA只載有父親或母親（而非雙方）的遺傳信息。
- 遺傳是遺傳性狀之一。
- DNA上的鹼基共有四種。
- 遺傳信息是由DNA上的鹼基數目決定的。

4.1A-B

4.1C-E

## 3 新增技巧練習 (Skill practice)

4 Cells, human reproduction and heredity

**Skill practice**

→ SKILL ENHANCEMENT Textbook 1B, p. 67

Drawing a histogram

Note these skills:

- Remember to mark the independent variable and dependent variable on the axes.
- Draw rectangular bars to represent the data. Leave no gaps between the bars.
- Write down the title.

The table below shows the distribution of handspans of 40 students in Class 1A.

Handspan (cm)	13	14	15	16	17	18	19
Number of students	2	4	7	10	8	6	3

a Draw a histogram below to show the distribution of handspans in Class 1A. (4 marks)

Title: Distribution of handspans in Class 1A

Title correct (1)  
Axes and labels correct (2)  
Bars correct (1)

b Answer the following questions using the histogram.

- What is the most common handspan in the class? 16 cm (1)
- What is the shortest handspan in the class? 13 cm (1)

## 4 新增 STEM 題目

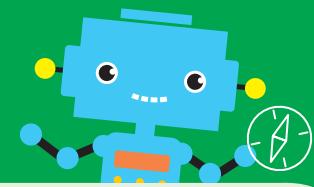
**STEM**

Q8 淳基設計了一個簡單的起重機：把空氣打進膠袋，就能把重物吊起！

- 把塑膠袋用膠紙密封，只在一角留下開口。
- 在開口插入膠管，再把開口密封。
- 把重物放在塑膠袋上，開始用氣泵打氣，重物會升起來！
- 重物慢慢地升起來了！

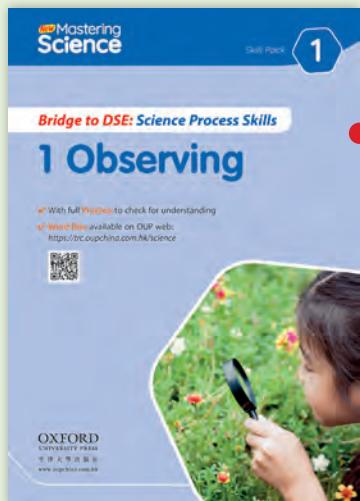
a 把空氣打進膠袋，袋內的空氣粒子數目和氣壓會有甚麼變化？ (2分)  
空氣粒子的數目增加 (1)；氣壓上升 (1)。

b 重物升起時，袋內的氣壓比袋外的高是低？ (1分)  
袋內的氣壓比袋外的高。 (1)



## 新 科學技能資源套 Skill Pack

### 1 觀察 Observing



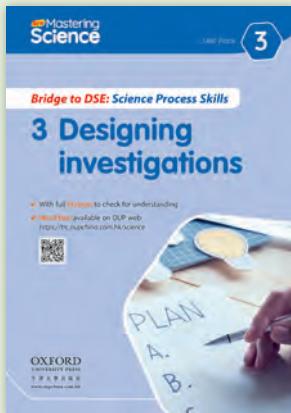
涵蓋課程全部6個  
科學過程技能

附大量練習，有效  
訓練學生的科學過程  
技能

### 2 分類 Classifying



### 3 設計探究實驗 Designing investigations



### 4 進行實驗 Conducting practicals



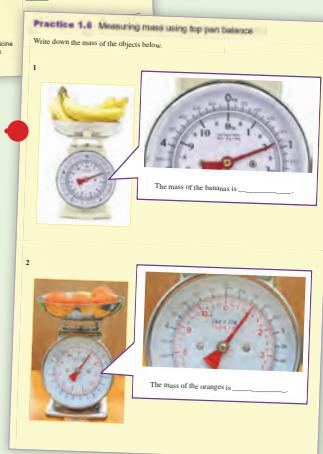
### 5 推論 Inferring



### 6 傳意 Communicating



### 7 科學語文訓練 Science Writing Skills

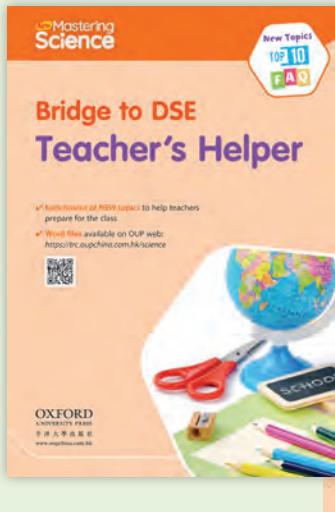


另備科學語文訓練  
(Science Writing Skills)，內容包括：

- 科學練習英文解題技巧
- 英語答題技巧
- 英語文法運用

# 教師配套

## 新銜接DSE教學手冊 Bridge to DSE Teacher's Helper



就新課題提供額外教學資料，  
方便老師備課，讓老師對新課題更添信心



### TOP 10 FAQ

#### Q1 染色體是甚麼？

染色體是動物和植物細胞的細胞核內呈線狀的構造，由一個DNA分子纏繞着一些蛋白質而成。

#### Q2 染色體藏在身體哪個地方？

在動物和植物，染色體位於細胞的細胞核內。在一些沒有細胞核的單細胞生物（例如細菌）中，染色體位於細胞質中。

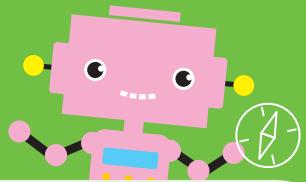
#### Q3 為甚麼叫染色體？

在光學顯微鏡下，染色體經某些特定染劑染色後變得清晰可見，因而得名。

#### Q4 染色體負責甚麼工作？

染色體中的DNA攜帶着遺傳信息，指示細胞怎樣運作，從而決定生物的性狀（例如眼睛顏色、身高和性別）。

特設新課題 TOP 10 FAQ，  
讓老師輕鬆應付學生提問

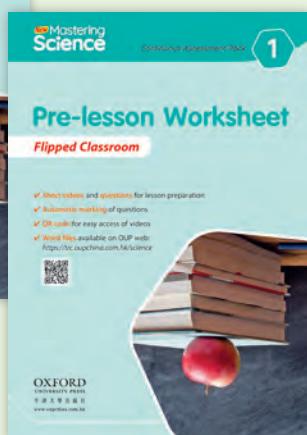


# 持續評估資源套 Continuous Assessment Pack



1 課前預習工作紙  
Pre-lesson Worksheet

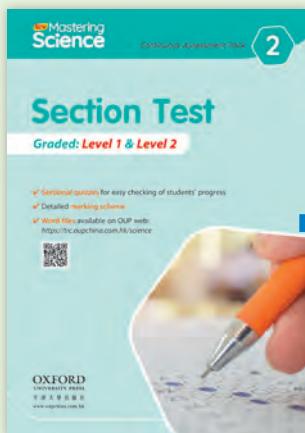
新



- Directions: Questions 2 and 3 refer to the photo below which shows some plant cells observed under a light microscope.
2. What is structure X?  
 A. Cell wall  
 B. Cytoplasm  
 C. Nucleus  
 D. Chloroplast
3. Which of the following is the function of structure Y?  
 A. Contains DNA to control the activities of the cell.  
 B. Facilitates the movement of substances into and out of the cell.  
 C. Stores water and dissolved minerals.  
 D. It is the site where photosynthesis occurs.

觀看影片，然後回答問題

2 分段小測  
Section Test



3 單元測驗  
Unit Test



4 上學期考試  
First Term Exam



5 期終試  
Final Exam



6 試題庫  
Question Bank

新增  
大量題目



所有試卷  
分程度  
1及2

# 教師配套



## 1 科學 DIY • Science DIY



- 介紹課本內「科學 DIY (Science DIY)」的做法
- 提供詳盡工作紙
- 額外提供課本以外 DIY 活動

持續  
更新



沙漏計時器



橙皮清潔劑



彩虹花



簡便顯微鏡



蝴蝶飛



液體計時器



呼吸模型



麪團電路



酸鹼噴射船



拇指琴



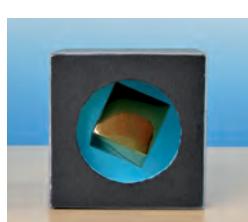
磁浮列車



驅蚊香包



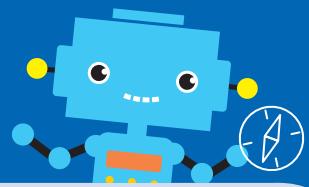
CD 牯燈



魔術盒



旋轉木馬



## 2 設計與製作 • Design and Make

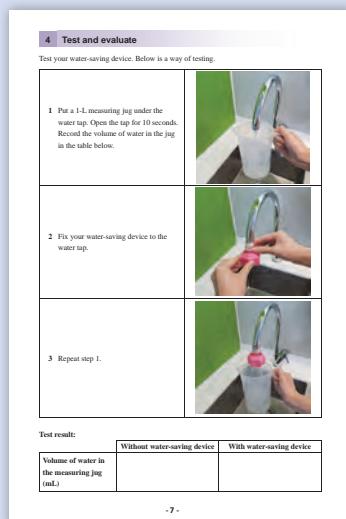


提供詳盡工作紙以進行  
STEM 專題研習

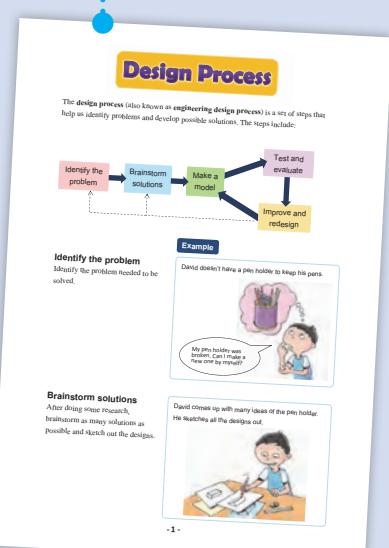
### 教師版附製作指引



### 建議測試方法



簡述設計流程 (Design process)，培育學生解難能力



### 教學計劃表

Suggested teaching plan	
Time	Section
10 min	<ul style="list-style-type: none"> <li>Introduce the class into groups.</li> <li>Introduce the scenario to the students.</li> <li>Tell the importance of water conservation to the students.</li> </ul>
10 min	<ul style="list-style-type: none"> <li>Identify the problem</li> <li>Ask students to suggest ways to reduce domestic water consumption.</li> <li>Tell about the task of designing and making a water-saving device that can be fixed to a tap.</li> </ul>
30 min	<ul style="list-style-type: none"> <li>Background research</li> <li>Ask students to do research on existing water-saving devices.</li> <li>Show some ideas to the students.</li> <li><a href="http://www.youtube.com/watch?v=rxSD1Iafo">http://www.youtube.com/watch?v=rxSD1Iafo</a></li> <li><a href="http://www.youtube.com/watch?v=gTNGrh2yY">http://www.youtube.com/watch?v=gTNGrh2yY</a></li> </ul>
30 min	<ul style="list-style-type: none"> <li>Brainstorm solutions</li> <li>Ask students to brainstorm ideas of the water-saving device.</li> <li>Choose the best one.</li> </ul>
50 min	<ul style="list-style-type: none"> <li>Make a model</li> <li>Ask students to think about the steps of making the device.</li> <li>Let students prepare the materials at home and bring them to the school in the next lesson.</li> <li>Ask students to create the model with groupmates.</li> </ul>
20 min	<ul style="list-style-type: none"> <li>Test and evaluate</li> <li>Ask students to test the device and check its efficiency.</li> </ul>
30 min	<ul style="list-style-type: none"> <li>Improve and redesign</li> <li>Discuss with students about the ways of improvement of the device.</li> </ul>
60 min	<ul style="list-style-type: none"> <li>Presentation</li> <li>Ask each group to present the product, working process, ways of improvements, etc. to the class.</li> </ul>

Total: 240 min (about 6 lessons)

### 評估表

Assessment checklist	
Assessment area	Performance
Knowledge	1 2 3 4 5 ○○○○○
Communication	1 2 3 4 5 ○○○○○
Creativity	1 2 3 4 5 ○○○○○
Critical thinking	1 2 3 4 5 ○○○○○
Teamwork	1 2 3 4 5 ○○○○○
Problem-solving	1 2 3 4 5 ○○○○○
Technical skills	1 2 3 4 5 ○○○○○

### 活動兼備

STEM 互動電子教室

(見下頁)



# 教師配套

## 3 STEM 互動電子教室 • STEM e-Classroom

The screenshot shows the 'SCIENCE NMASCI' section of the STEM e-Classroom. The current unit is 'Unit 2 Design and Make: Water-saving device (Bk1A p. 129)'. Below the title are several circular icons representing different steps: 'Introduction', 'Identify the problem', 'Background research', 'Brainstorm solutions', 'Make a model', 'Test and evaluate', 'Improve and redesign', and 'Sharing'. A blue arrow points from the 'Sharing' icon towards the right side of the screen.



為「設計與製作 (Design and Make)」提供多元化  
互動電子活動

### 熱身問題

This section is titled 'Warm-up' and asks: 'How much do you know about Hong Kong's fresh water resources?'. It contains two questions:

1. What is the major source of Hong Kong's fresh water?  
Rainwater  Dongjiang water
2. How many reservoirs are there in Hong Kong?  
17  27

Below the questions are two small images: one of a reservoir and another of a water tap.

### 學生分享設計意念

This section is titled 'Brainstorm solutions' and asks: 'Suggest some designs for the water-saving device. Choose the best one and draw it.' It includes a drawing area with a camera icon and a 'Upload the drawing of your design.' button. A hand-drawn sketch of a water-saving device is shown, labeled with 'plastic cap made by 3D printing', 'upper side', 'fixing', and 'lower side'.

### 學生分享產品測試結果

This section is titled 'Test and evaluate' and asks: 'Test your water-saving device. Below is a way of testing.' It shows three steps:

- Step 1: Measure the volume of water flowing out from a water tap in 10 s with a measuring cup.
- Step 2: Fix your water-saving device to the water tap.
- Step 3: Repeat step 1.

Below these steps are two boxes: 'Without water-saving device' and 'With water-saving device'. A table shows the results:

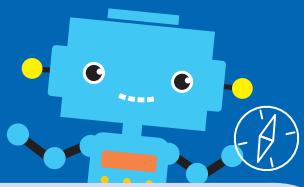
Result:	Without water-saving device	With water-saving device
Volume of water flowing out in 10 s (mL)	<input type="text"/>	<input type="text"/>

### 評價

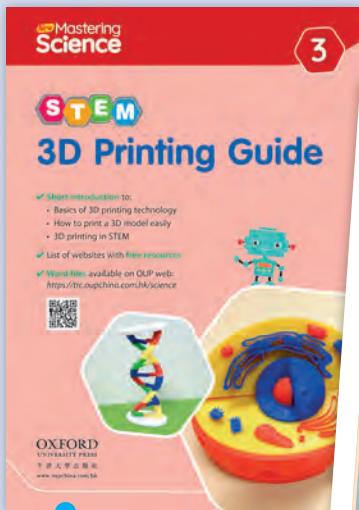
This section is titled 'Test and evaluate' and asks: 'Evaluate your water-saving device.' It contains five evaluation questions with 'Yes' and 'No' options:

1. Can it reduce water consumption? Yes  No
2. Is it efficient in reducing water consumption? Yes  No
3. Is it easy to fix your device to the tap? Yes  No
4. Is it durable? Yes  No
5. Are the materials easy to collect? Yes  No

Below the questions is a text box for 'Other problems of your device:' with a camera icon.

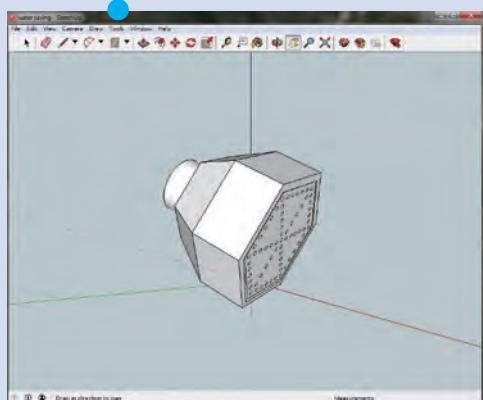


## 4 3D 打印應用 • 3D Printing Guide



6 3D printing in STEM activities			
Topic	Related Units	Science concepts	Resources
Water-saving device	2	Water conservation	<a href="http://www.3dprintingchina.com/727206">http://www.3dprintingchina.com/727206</a>
Rubber band car 3D design	5	Energy conversion	<a href="http://www.3dprintingchina.com/727208">http://www.3dprintingchina.com/727208</a>
Wind turbine design	5, 8	<ul style="list-style-type: none"> <li>• Wind turbine electrical system</li> <li>• Electricity</li> <li>• Energy</li> </ul>	<a href="http://www.3dprintingchina.com/727207">http://www.3dprintingchina.com/727207</a>

提供現成 3D 打印檔案，下載後可直接打印，方便快捷



簡單介紹：

- 3D 打印技術
- 3D 模型的簡易打印
- 3D 打印於 STEM 的應用

## 5 生活中的 STEM • STEM in Life



- 介紹日常生活中與 STEM 相關的有趣事物
- 附工作紙及答案



# e 教學資源

新

## 互動電子書



支援 : iOS Android

Windows Mac OS

一站式 (all-in-one) 平台包括 :

- 電子課本
- 互動課堂活動
- VR 虛擬考察
- AR 立體模型
- STEM 互動教室
- 網上評估 …… 等等

## 互動課堂活動

### 意見分享

學生可分享意見、照片等；老師可與學生即堂討論

### 投票

學生可參與投票活動，老師即時得知結果

### e 評估練習

即時自動批改，老師可查閱學生表現

## 電子課本

### 備英語全文朗讀

試一試！



附增潤影片，一點即播

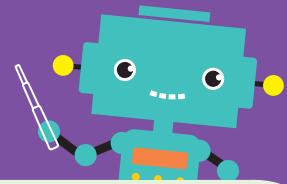
另備：

- VR 虛擬考察
- AR 立體模型
- 科學技能訓練影片
- STEM DIY 影片
- STEM 設計與製作影片
- 課堂活動影片
- 科學魔術影片
- 實驗影片
- 教學光碟
- 試卷製作程式
- 網上教學資源中心
- 網上評估 …… 等等

詳情參閱「e 教學資源」小冊子

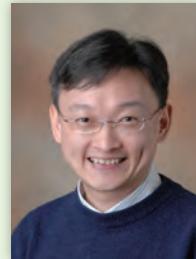
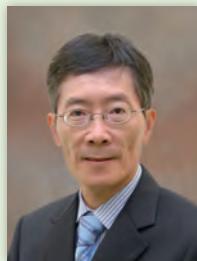


# 專業團隊 教育傳承



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名譽副教授



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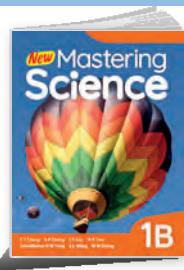
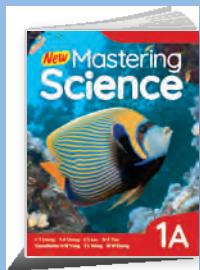
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牛津科學網

課本及配套簡介

e 教學資源簡介



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