

点读版

3B

学科·英语整合课程

# Light Up 科学 Science

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# Contents



<b>Unit 1</b>	<b>Measurement 测量</b>	<b>1</b>
	Lesson 1 Measuring Mass	2
	Lesson 2 Measuring Area	7
	Lesson 3 Measuring Volume	11
	Unit Review	16
<b>Unit 2</b>	<b>Habitats 栖息地</b>	<b>17</b>
	Lesson 1 Where Do Animals Live?	18
	Lesson 2 Different Habitats	22
	Lesson 3 Migration and Hibernation	25
	Unit Review	28
<b>Unit 3</b>	<b>Electricity 电</b>	<b>30</b>
	Lesson 1 Circuits	31
	Lesson 2 Switches	35
	Lesson 3 Conductors and Insulators	38
	Unit Review	41
<b>Unit 4</b>	<b>Making a Lighthouse 制作灯塔</b>	<b>43</b>
	Part 1 Make It	44
	Part 2 Test It	48
	Part 3 Think Again	49
	<b>Glossary</b>	<b>50</b>
	<b>Skills</b>	<b>51</b>

## UNIT 4

# MAKING A LIGHTHOUSE

制作灯塔



See a light,  
Very bright (明亮的).  
What can it be?  
Two people on an island (岛) —  
Let's go and see!



## Part 1 Make It



### Key Words

circuit (电路)

lighthouse  
(灯塔)

tower (塔身)



### Step 1 Make a tower.

*You need*



Cut off (剪掉) the bottom (底部) of the bottle (瓶子).



Wrap (用……包) paper round (围绕) the bottle.



Draw on the paper. Make it look like a lighthouse.



## Step 2 Add a circuit.

You need

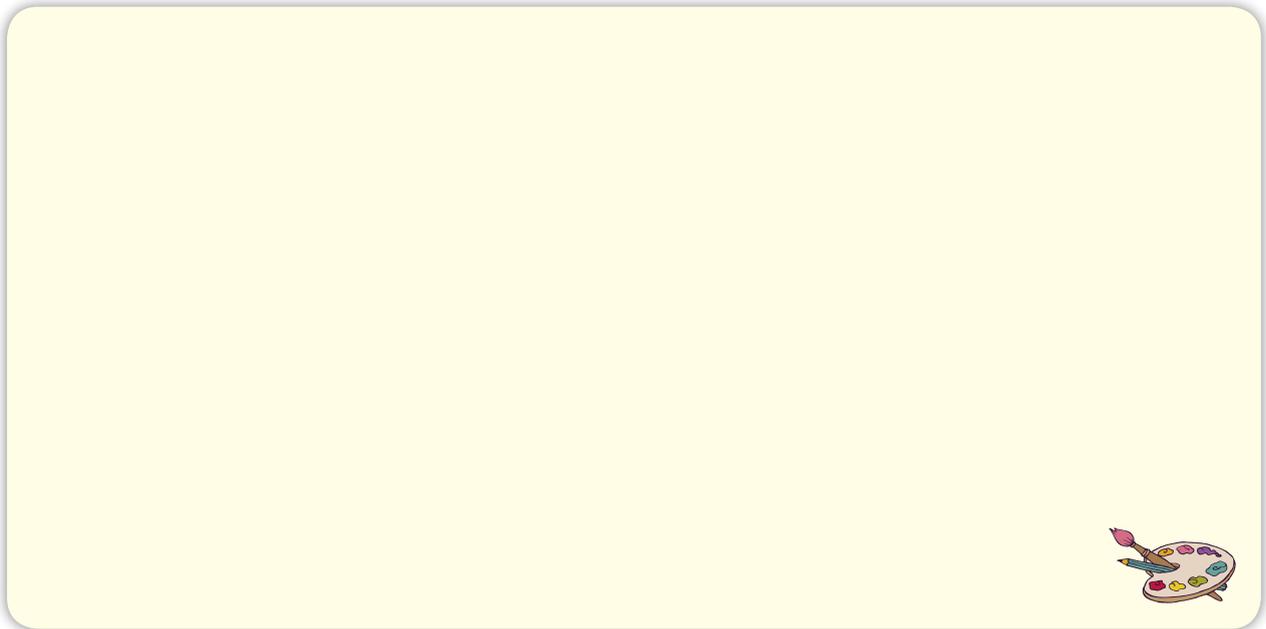


Tape (用胶帶貼) the bulb on the top (顶部) of the tower.

Connect (连接) the bulb to a battery and a switch.  
Add a cover (罩子).



Draw a picture of your tower with the circuit.



 **Step 3** Add the lighthouse to an island.

Make an island for your lighthouse.





## Part 2 Test It

Now test your lighthouse in a dark (黑暗的) room.



Can your lighthouse do these things? Colour the stars.

Can it stand up on its own (独自地)?



Can it give out light?



Can you turn it off?





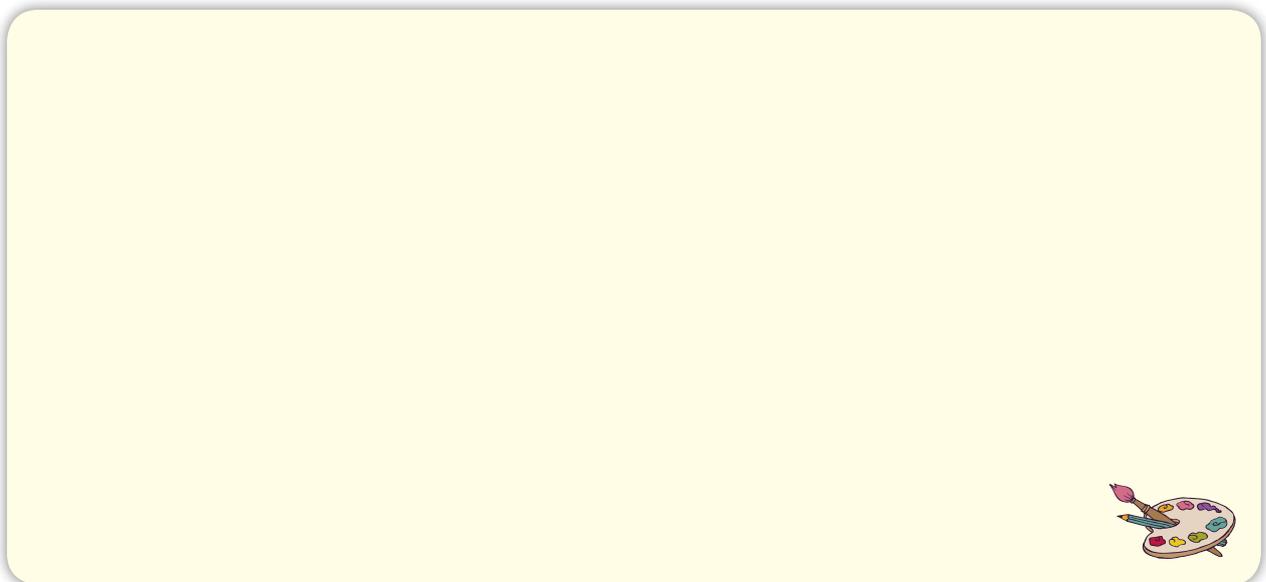
### Part 3

# Think Again

What was easy to make? What was difficult (困难的)?



How can you make your lighthouse better (更好的)? Draw a picture.



# Glossary



## Unit 1 Measurement

area	面积
gram	克
mass	质量
measure	测量
millilitre	毫升
scales	秤
square	方格
square centimetre	平方厘米
volume	体积

## Unit 2 Habitats

desert	沙漠
food	食物
forest	森林
grassland	草地
habitat	栖息地
hibernation	冬眠
migration	迁徙
sea	海洋

## Unit 3 Electricity

battery	电池
bulb	灯泡
complete circuit	闭合回路
conduct	传导
conductor	导体
electricity	电
insulator	绝缘体
switch	开关
turn off	关
turn on	开
wire	导线

## Unit 4 Making a Lighthouse

circuit	电路
lighthouse	灯塔
tower	塔身

# Skills

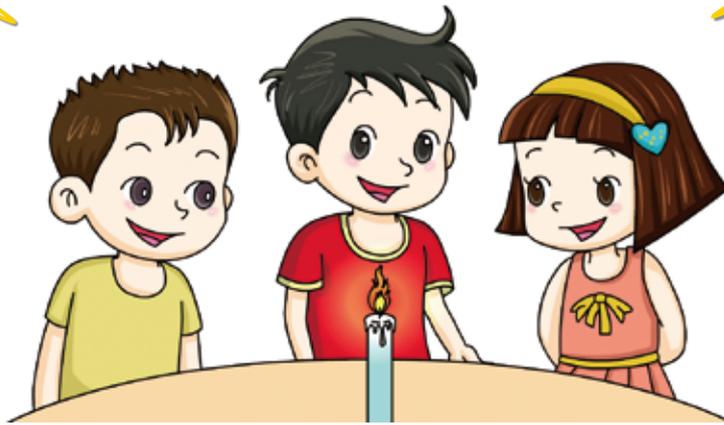


## Observe

I can see the flame (火焰). The flame has two colours.

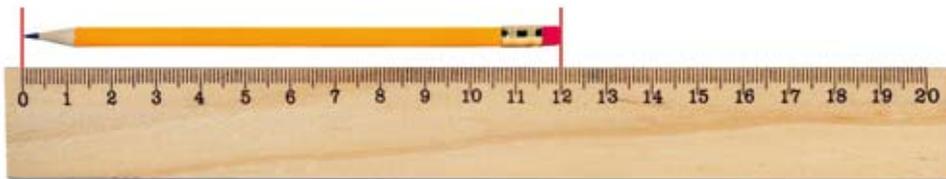
I can hear the crackle (噼啪声).

I can smell burning (燃烧的气味).



When you study (研究) something (某事物) closely, you are observing (观察). You can look at it, listen to it, touch it, smell it or taste it.

## Measure



12 cm

A ruler is a measuring (测量) instrument (工具). When you use a measuring instrument, you are measuring. A measurement always (总是) has a number and a unit (单位).

## Compare



If (如果) you have two or more objects, you can compare (比较) them.

## Classify



I want to group these animals by the number of their legs.



I want to group these animals by how they move.

When you put things into groups (组) by certain (某些) features (特征), you are classifying (分类).

## Experiment



Observe something. Think about your results. Did you learn something about science? You are experimenting (实验).

## Fair test

We have to keep (保持) the same distance (距离) between (在……之间) the magnet and the paperclips.

We have to use paperclips of the same size (大小).

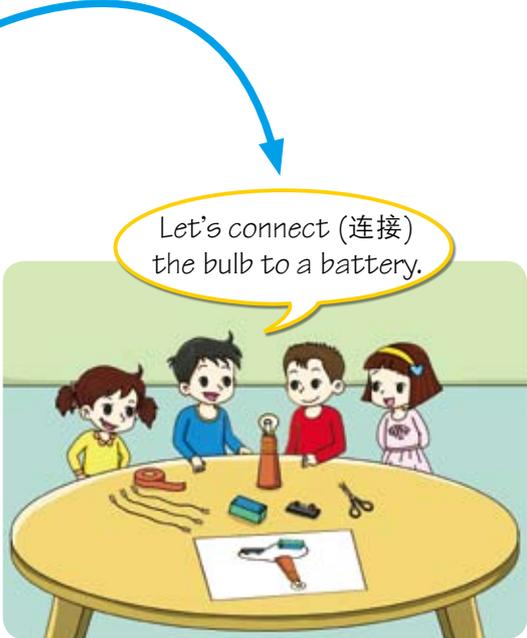


If you want to compare results, you should do a fair test (公平实验). How do you make a fair test? Change only (唯一的) one condition (条件). Keep the other conditions the same.

# Design and Technology



Find a need



Make it



Think again



Test it

# A bright future with

## Light Up Science

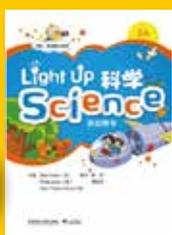


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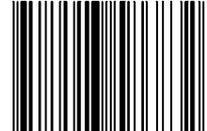


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