

3B

点读版

学科·英语整合课程

Light Up 科学 Science

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UNIT 4

MAKING A LIGHTHOUSE



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



Part I Make It



Key Words

circuit

lighthouse

tower



Step 1 Make a tower.

You need



Cut off the bottom of the bottle.



Wrap paper round the bottle.



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



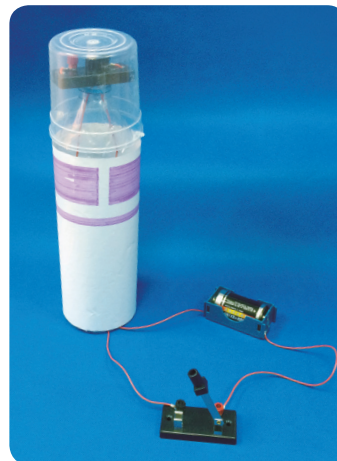
Step 2 Add a circuit.

You need

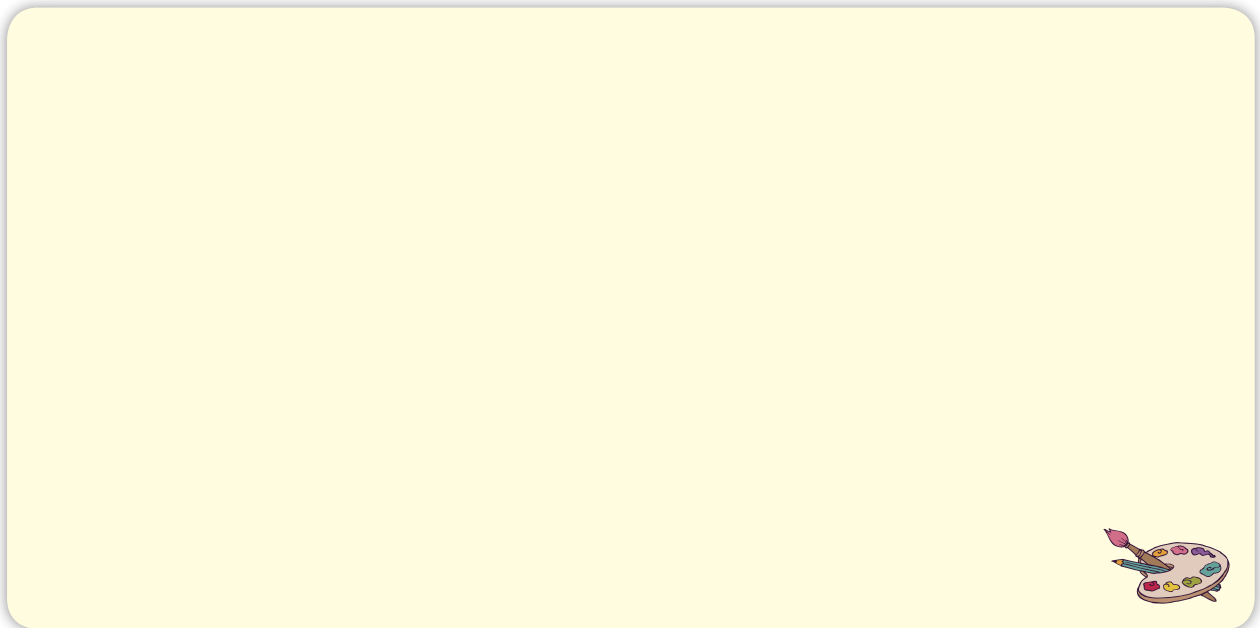


Tape the bulb on the top of the tower.

Connect the bulb to a battery and a switch.
Add a cover.



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 room.



Can your lighthouse do these things? Colour the stars.

Can it stand up on its own?

Can it give out light?

Can you turn it off?





Part 3

Think Again

What was easy to make? What was difficult?



How can you make your lighthouse better? 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

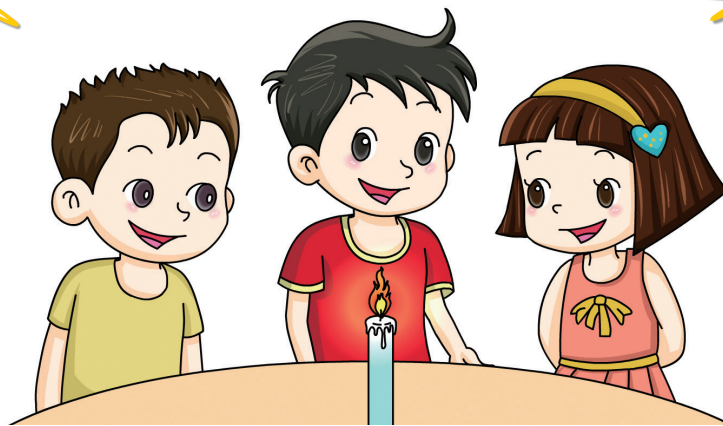


Observe

I can see the flame. The flame has two colours.

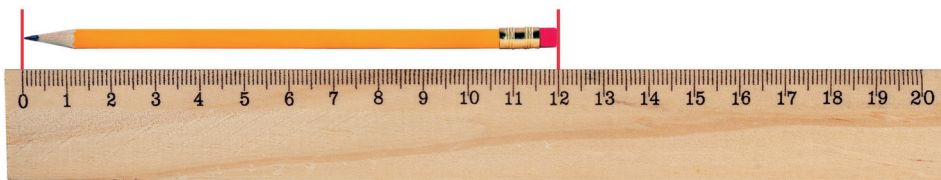
I can hear the crackle.

I can smell burning.



When you study something closely, you are observing. You can look at it, listen to it, touch it, smell it or taste it.

Measure



12 cm

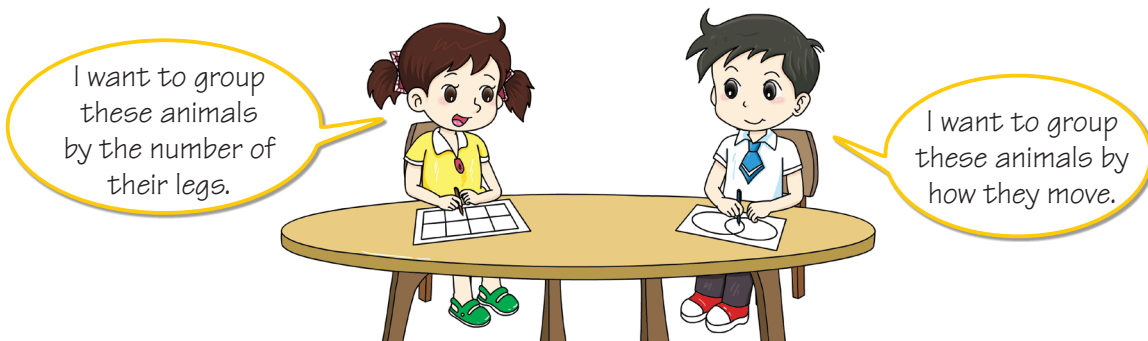
A ruler is a measuring instrument. When you use a measuring instrument, you are measuring. A measurement always has a number and a unit.

Compare



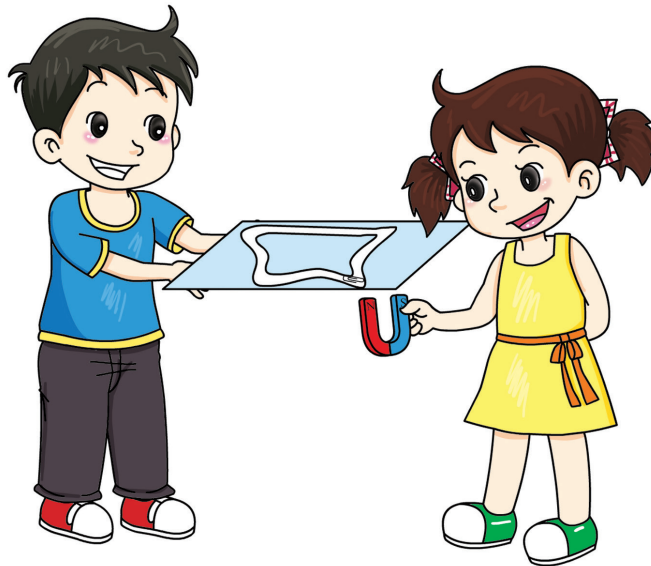
If you have two or more objects, you can compare them.

Classify



When you put things into groups by certain features, you are classifying.

Experiment



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

Fair test

We have to keep the same distance between the magnet and the paperclips.

We have to use paperclips of the same size.



If you want to compare results, you should do a fair test. How do you make a fair test? Change only one condition. Keep the other conditions the same.

Design and Technology

How can we tell others about our island?

We can make a lighthouse.



Find a need

Let's connect the bulb to a battery.



Make it

Can we make it better?



Think again

Can you see the light?

Yes, I can.



Test it

A bright future with

Light Up Science

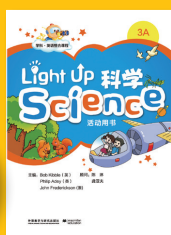


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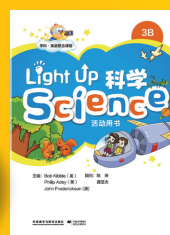
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