

ELECTRIC WORLD

How do we make electricity?
Can a potato be a battery? Find out
more about circuits, transistors and batteries.

Do You Know? is a series of levelled non-fiction books featuring video content, project work and critical-thinking activities to motivate and engage young learners. Covering a range of STEM topics from nocturnal animals to climate change, *Do You Know?* takes an enquiry-based approach, developing children's language, communication and investigation skills.

Level 1 Pre-A1 • 400 headwords

Level 2 A1 • 600 headwords

Level 3 A1+ • 800 headwords

Level 4 A2 • 1100 headwords

Lexile measure 540L • Word count 731

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Electricity and magnetism

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DO YOU KNOW?

ELECTRIC WORLD

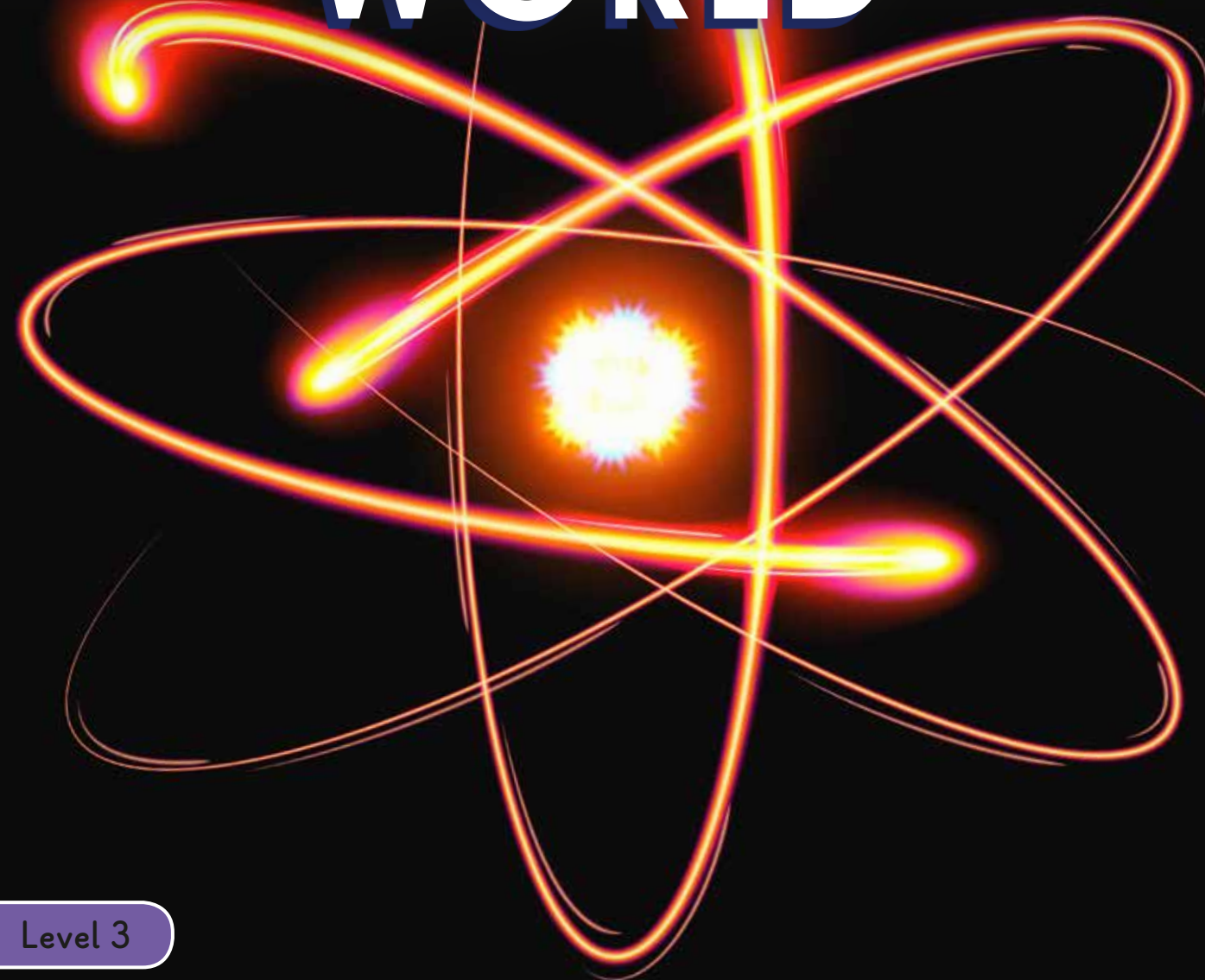
3

Ladybird

DO YOU KNOW?



ELECTRIC WORLD

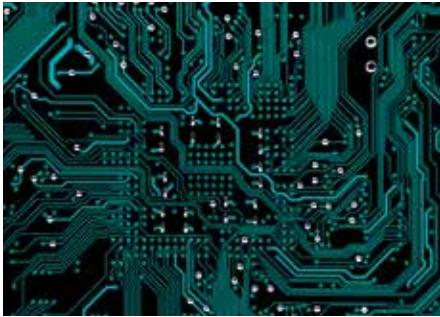


Level 3

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New words



circuit



dangerous



metal



nature



device



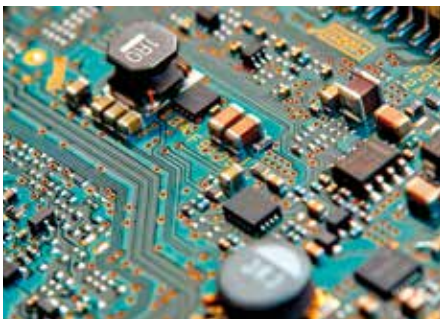
electricity



pull



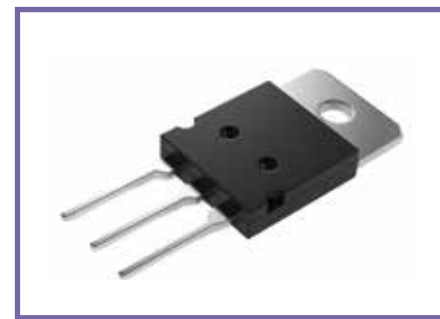
touch



electronic



magnet



transistor



turn

What is electricity?

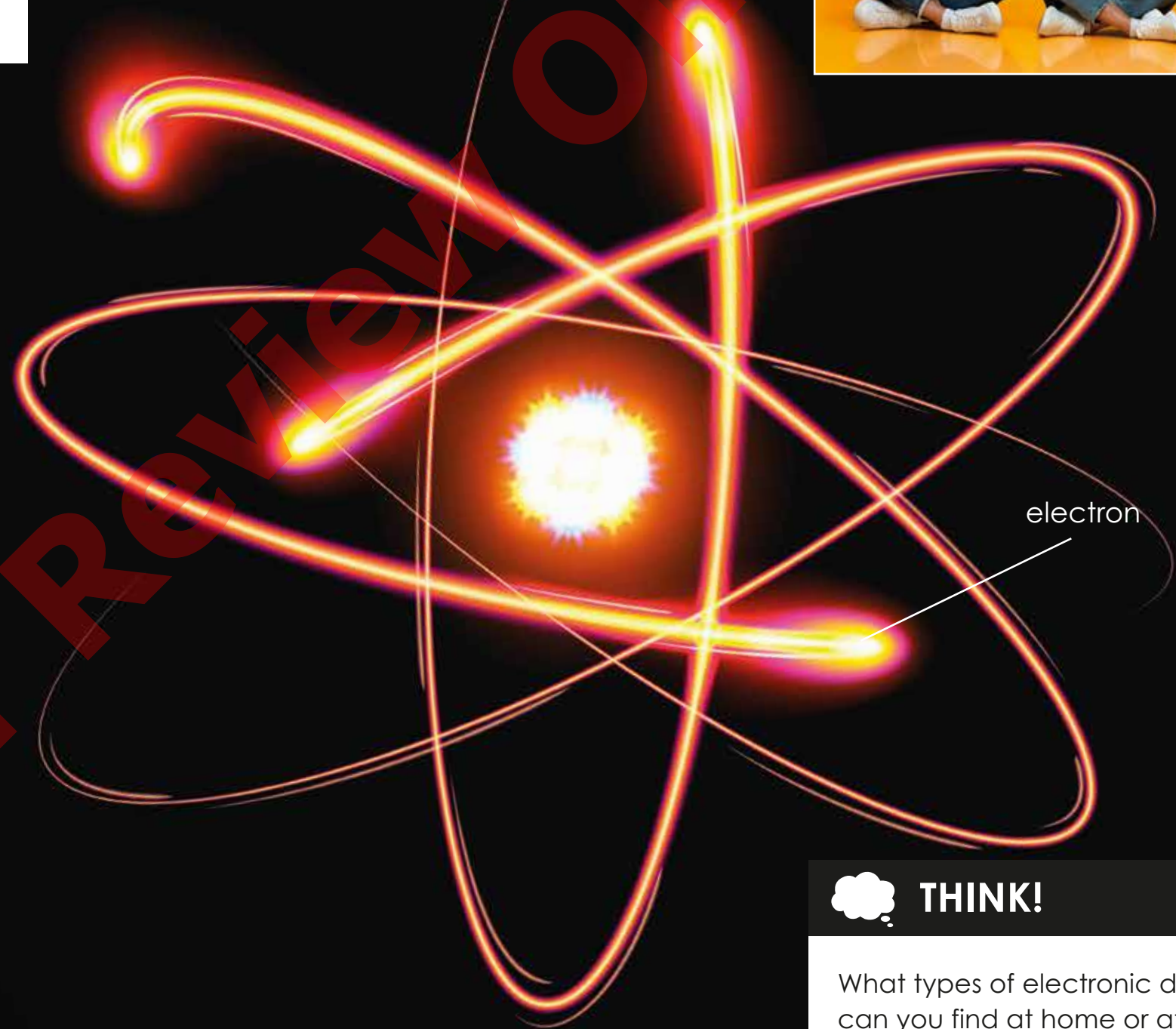


This is an atom.
There are atoms
in all the things
in the world.

Electrons are
very small parts
of atoms. You
can't see them
with your eyes.

When electrons move,
they make **electricity**.

Our mobile phones, laptops
and computers are all
electronic devices.
Electronics in our devices
use electricity to help us.



 **THINK!**

What types of electronic devices
can you find at home or at school?

Is there electricity in nature?

People use electricity every day, but it is in **nature**, too. There is electricity in lightning, in animals and in our bodies.

Clouds make electricity when they move. We see lightning when the electricity leaves the clouds.

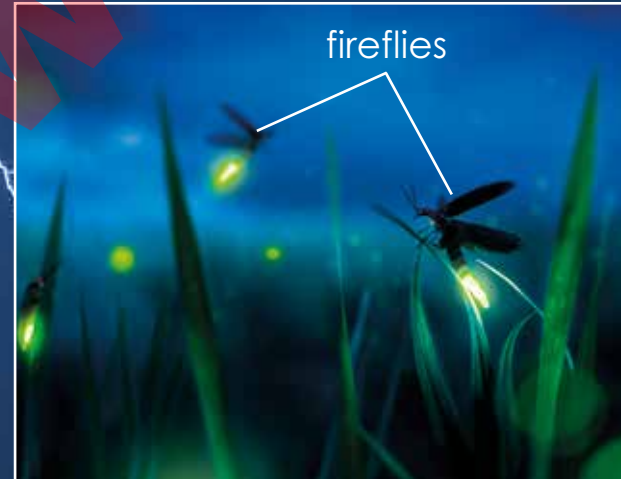
lightning

Some animals use electricity to get food. This electric eel makes electricity in its body. It uses the electricity to kill fish. Then it eats them!



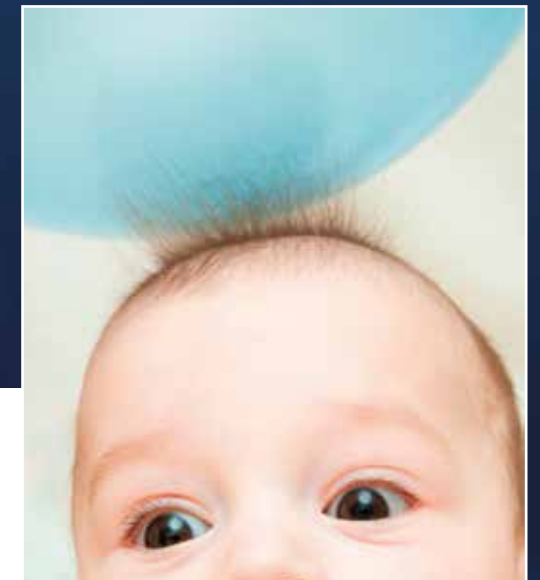
electric eel

fireflies



Fireflies make electricity, too.

You can see static electricity when you move a balloon on your head. Your hair stands up!



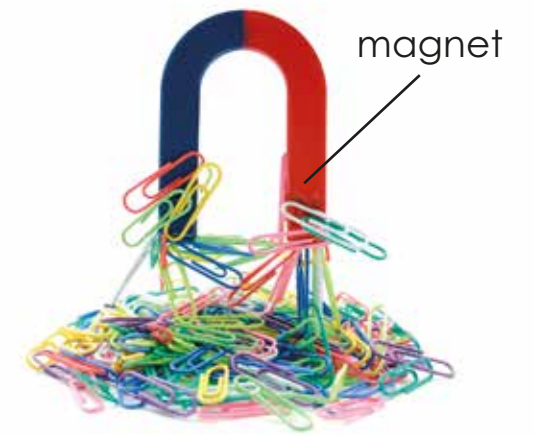
FIND OUT!

Move a balloon against your head. What happens to your hair? Where can you see static electricity?

How do we make electricity?

We can use wind or water to make electricity. Wind and water are always moving. They can turn turbines for us. Turbines make electricity.

Turbines have big **magnets** in them. A magnet **pulls metal** to it.



Wind or water turns a magnet in the turbine. The magnet pulls a metal coil. The magnet and the coil turn. Together they make electricity.



Power stations make electricity for us, too.



 **WATCH!**

Watch the video (see page 32).

There are magnets in many different things. Write a list of five things with magnets.