



lingoda

# The discovery of electricity

SPEAKING

LEVEL  
Advanced

NUMBER  
C1\_2038S\_EN

LANGUAGE  
English

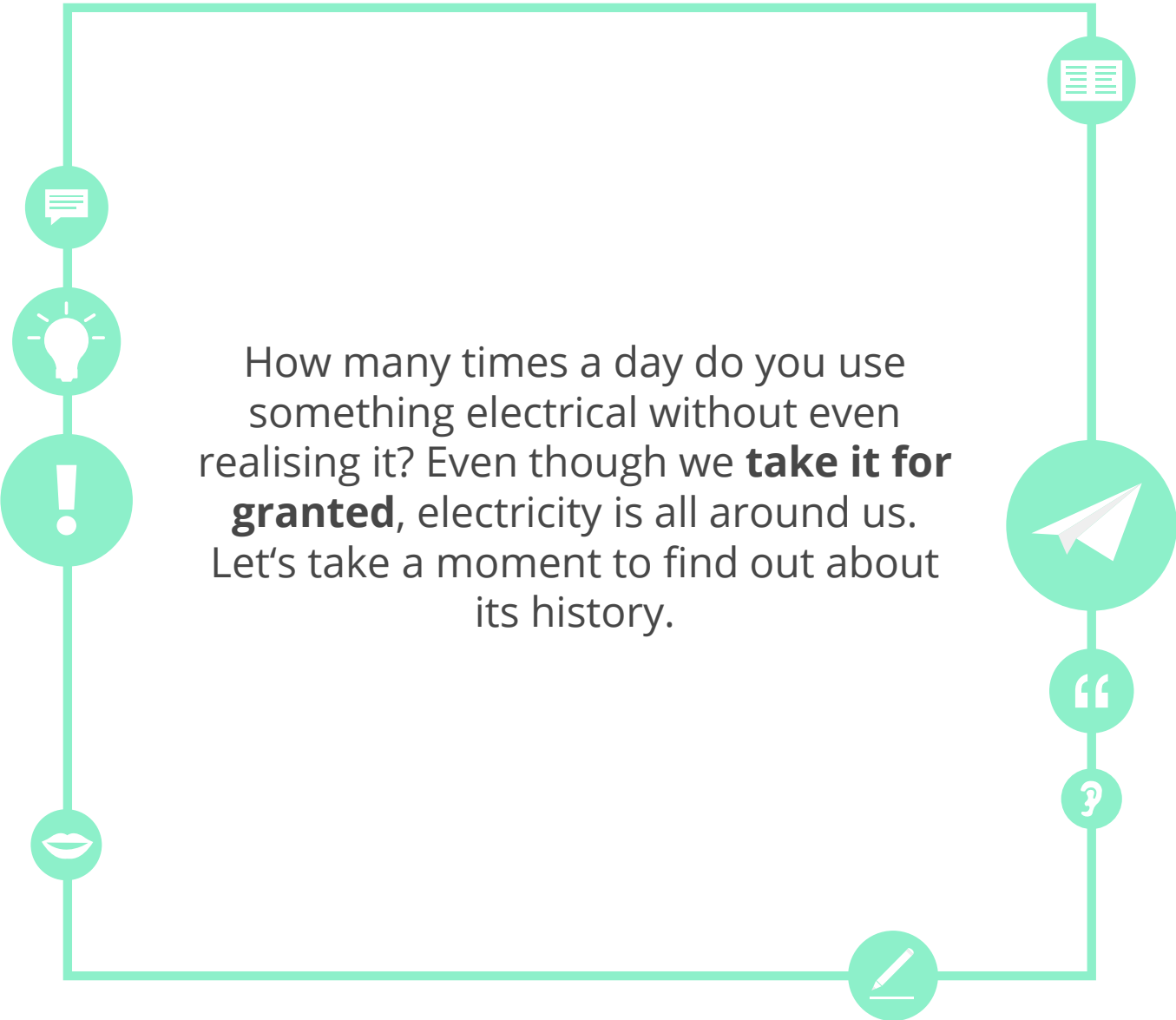




## Goals

- Can read, listen to and understand a complex text about the discovery of electricity.
- Can discuss past inventions in depth and convincingly make speculations about the future.





How many times a day do you use something electrical without even realising it? Even though we **take it for granted**, electricity is all around us. Let's take a moment to find out about its history.



## The world around you



How many items can you see around you that use electricity? Make a list with your teacher or the other students.

What would life be like without these items?

What would you use instead?



## Check your knowledge

List 5 things you already know about the discovery of electricity. Are you able to answer any of the questions who, what, when, where and why?





# Electricity



Electricity is a form of energy that occurs in nature. Many people say that the 18<sup>th</sup> century scientist Ben Franklin invented electricity by flying a kite in a lightning storm and collecting the electrical charge in a special jar. Franklin did invent several words we still use today, including **battery**, **conductor** and **electrician**. However, electricity has always existed. Franklin should be given credit for discovering certain things about electricity, not inventing it.



## Electricity

There is historical evidence that ancient **civilisations** knew about, and used electricity. Egyptian texts from 2750 BCE write about getting shocks from electric fish. They thought that these electric fish were protectors of all other fish. In 600 BCE, ancient Greeks rubbed fur on amber, creating what we now know as static electricity (exactly the same as rubbing a balloon on your hair and letting it stick to the wall). Copper-lined pots, believed to have been batteries used to produce light, have been discovered at ancient Roman and Persian **archaeological** sites.



## Electricity



Many well-known scientists besides Franklin contributed to the **body of knowledge** about electricity. For example, Italian physicist Alessandro Volta built a device called a voltaic pile in 1800. This was an early form of the electric batteries we use today. His work was so influential that the standard unit for measurement of electric potential, a volt, is named after him.





## Electricity

Other scientists who contributed to our knowledge of electricity include Nikola Tesla, Thomas Edison and Andre Ampere. This knowledge eventually combined in the late 19<sup>th</sup> century to make electricity available for **residential** and **industrial** use. The widespread use of electricity quickly changed society, allowing huge changes to take place in the way people lived and the way industry worked.



**Vocabulary: do you know the meanings of these words and phrases?**

**to take something for granted**

**industrial**

**residential**

**battery**

**body of  
knowledge**

**conductor**

**archaeological**

**electrician**

**civilisation**





## Read the statements. Is each statement true or false?

	TRUE	FALSE
1. Electricity was invented by Ben Franklin.	<input type="checkbox"/>	<input type="checkbox"/>
2. Copper-lined pots were found in ancient Persia.	<input type="checkbox"/>	<input type="checkbox"/>
3. Ancient Egyptians used electricity.	<input type="checkbox"/>	<input type="checkbox"/>
4. Allesandro Volta invented the telephone.	<input type="checkbox"/>	<input type="checkbox"/>
5. The widespread use of electricity didn't have much effect on society.	<input type="checkbox"/>	<input type="checkbox"/>
6. Ben Franklin invented the word electrician.	<input type="checkbox"/>	<input type="checkbox"/>



**Look back through the text. What happened at these times?  
Make sure to use a full sentence in your answer.**

1. 18<sup>th</sup> century



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2. 2750 BCE



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3. 600 BCE



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4. The year 1800



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5. 19<sup>th</sup> century



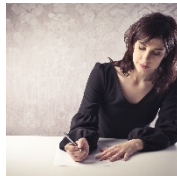
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## Discussion

**Discuss these questions with your group or teacher.**



1

If you could study (or are studying) any branch of science, what would it be? Why?



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1

If you could study (or are studying) any branch of science, what would it be and why?



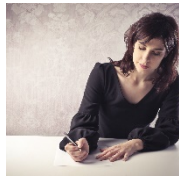
2

What changes have taken place as a result of widespread use of electricity? How has society developed?



## Discussion

**Discuss these questions with your group or teacher.**



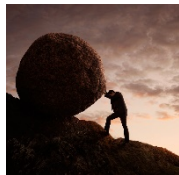
1

If you could study (or are studying) any branch of science, what would it be and why?



2

What changes have taken place as a result of widespread use of electricity?



3

In which situations do people have to live without electricity?



## Improvise

**Imagine that the electricity in your home has been suddenly cut off. Imagine a dialogue with your friend. You are calling her with the last 2% of your phone's battery life. Read the lines below and then role play the rest of the conversation!**



Sarah! Are you there?

Oh, hey John! What's up?



Listen, I need your help – it's an emergency!

Oh?







## Debate

**Do you agree or disagree with the sentence below? Why or why not?  
Discuss with your teacher or group.**

//

The world would be better off without such widespread  
reliance on electricity.

//



## Get ready to listen



The next few slides will focus on  
training your listening comprehension



## Listen and answer

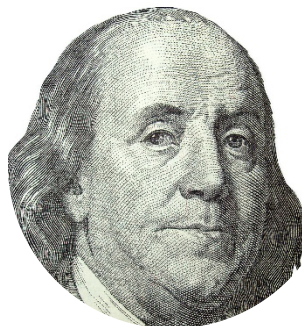
**Answer these questions as you listen to the text.**

1. Which parts of the world do not have consistent access to electricity?
2. What are the two alternative sources of electricity production mentioned?
3. What percentage of Quebec's electricity comes from water?
4. What aspect of electricity production is a matter for concern?



## Dialogue

**Create a dialogue between Ben Franklin and a typical young person.  
How would their ideas about electricity be different?**



**You are Ben Franklin. You are  
just discovering the properties  
of electricity.**



**You are a typical young person  
in the 21<sup>st</sup> century. Many  
aspects of your life rely on  
electricity.**



## Reflect and discuss

Many popular hobbies nowadays are reliant upon electricity. Imagine humankind had never discovered electricity. What kind of pastimes do you think would be popular instead?





## Reflect on the lesson

Take a moment to review any new **vocabulary, phrases, language structures** or **grammar points** you have come across for the first time in this lesson.

Review them with your teacher one more time to make sure you don't forget!





## Reflect on the goals

Go back to the second slide of the lesson and check if you have achieved all the goals of the lesson.

yes

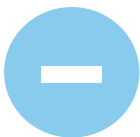
no





## Reflect on this lesson

Think about everything you have seen in this lesson.  
What were the most difficult activities or words? The easiest?



If you have time, go over  
the most difficult slides again





## Transcription

Today, most people in the world only have to go without electricity in the instance of a **natural disaster** or other emergency. According to recent data, nearly everyone in the world has access to electricity all or most of the time, with the exception of some countries in Southeast Asia and Africa.

Many people now have serious concerns about our use of **fossil fuels** to produce electricity, and are looking for other more **sustainable** ways of creating electricity. For example, the province of Quebec in Canada gets 96% of its electricity from water. Particularly unusually, the city of Albertville, in France, uses the gas created by ageing cheese to produce electricity!



## Answer Key

### Activity p. 11

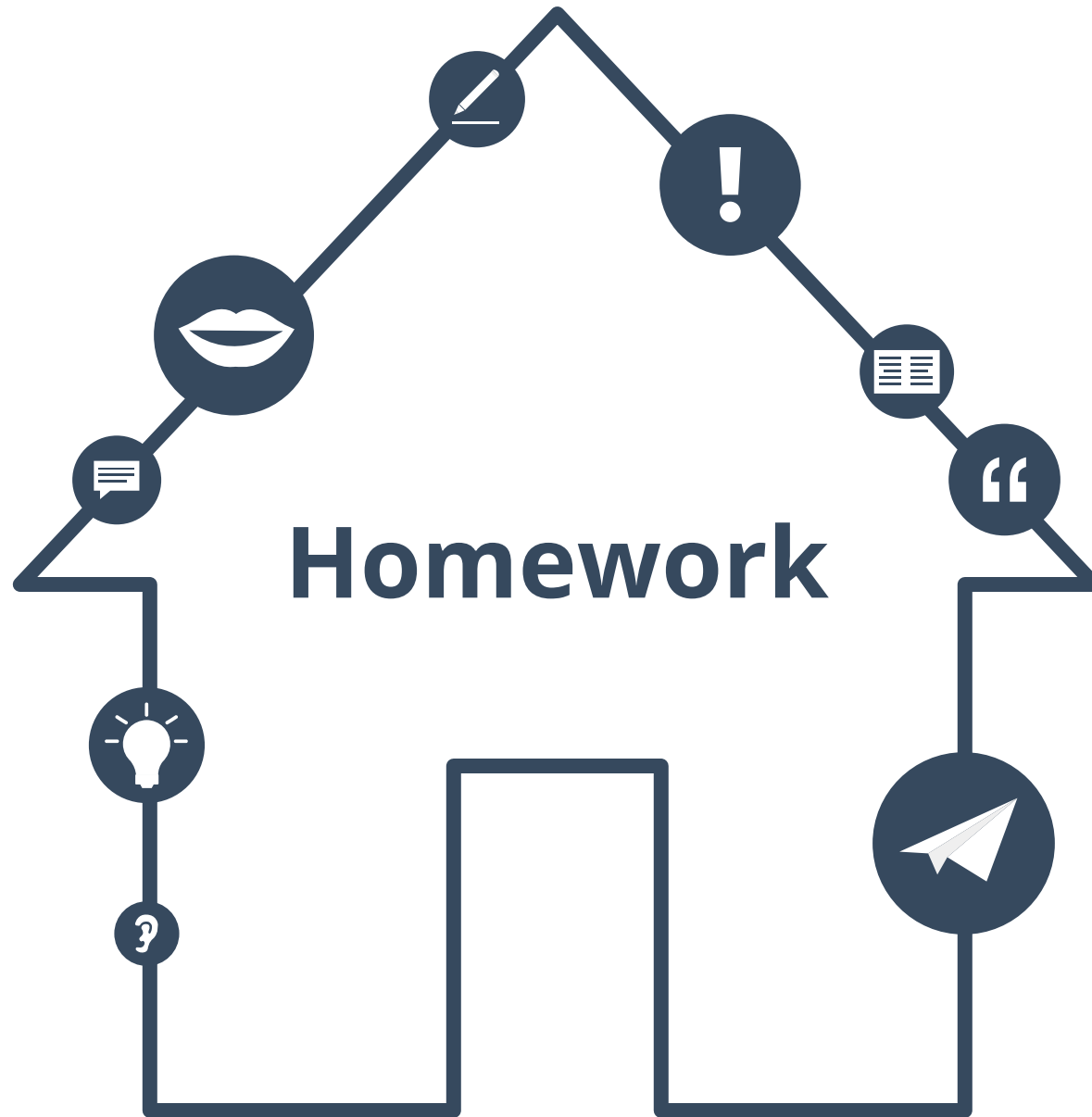
1f, 2t, 3f, 4f, 5f, 6t.

### Activity p. 12

1 Ben Franklin lived and worked. 2 Egyptians wrote about electricity. 3 Greeks discovered static electricity. 4 Volta built the volatic pile. 5 Electricity was made available for widespread use.

### Activity p. 19

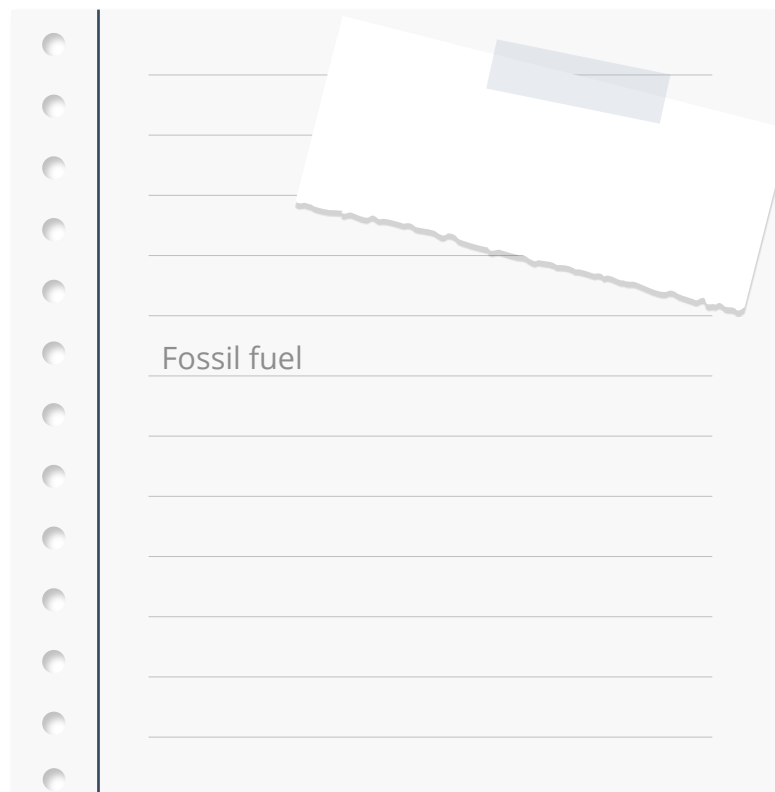
1. Southeast Asia and Africa. 2 water and gas produced by cheese. 3 96%. 4 fossil fuels.





## My favourite words

**Make a list of your favourite or most useful words from this lesson.**

A graphic of a spiral-bound notebook with a light gray cover and white lined pages. A white rectangular sticky note is attached to the top right of the notebook with a small blue tab. The sticky note is slightly torn at the bottom edge. The word "Fossil fuel" is written in a simple, sans-serif font on the first line of the notebook page below the sticky note. The notebook has a series of small circles along the left edge representing the spiral binding.

Fossil fuel



## Using my favourite words

**Write some sentences using the words you chose on the previous page.**

**For a challenge, create a story or short essay instead of individual sentences.**

Fossil fuel

Fossil fuels are growing more expensive because they are so unsustainable.



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