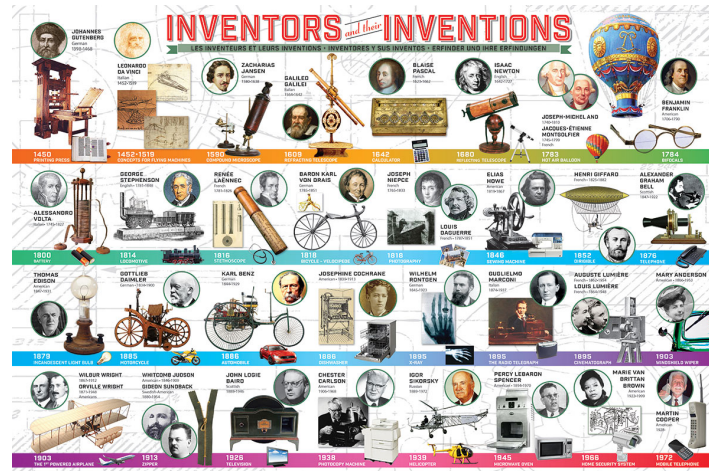


INVENTIONS AND INVENTORS: HOW NEW IDEAS ARE CREATED



INTRODUCTION

Every day, we use many inventions: the light bulb, the computer, the washing machine, the smartphone, and more.

These inventions were created by inventors.

Inventors:

- See a **problem** in everyday life.
- Have an **idea** for a solution.
- **Design, test, and improve** their invention.

For example, the light bulb was invented in the 19th century. It is used for giving light when it is dark. Without electric light, life was more difficult at night.

Today, new inventors continue to create ideas: new apps, medical devices, eco-friendly machines and more.

Think about your favorite invention. It can be:

- A smartphone,
- The internet,
- A car or bicycle,
- A washing machine,
- A specific app or device.

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In your notebook write 4-5 simple sentences:

- What is the invention?
- How often do you use it?
- What do you use it for?
- Why is it important for you?

Example:

My favorite invention is the smartphone. I use it every day. I use it to send messages, make calls and check social media. It helps me stay in contact with my friends. It is very important in my life.

VOCABULARY

1 Inventions and technology

Word / phrase	Example
invention	The smartphone is a modern invention.
inventor	An inventor creates new things.
device	This device helps you track your steps.
machine	The washing machine is a useful machine.
tool	Inventors use many tools.
product	The company sells a new product.
app (application)	This app is for learning languages.
gadget	He loves buying new gadgets.
model	They tested the first model of the machine.
prototype	The prototype was not perfect.

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2 Verbs of creation & work process

Verb / phrase	Example
design	They design new products.
create	She created a new learning app.
develop	The team developed a new device.
test	They test the invention many times.
improve	Inventors improve their ideas.
solve a problem	This invention solves a big problem.
experiment	Inventors experiment in the lab.
research	They research information before designing.
build	He built the first prototype.
present (an idea)	She presented her idea to a company.

3 Describing purpose and function

Expression	Example
It is used for + -ing	It is used for cleaning the floor.
It is used to + verb	It is used to send messages.
It helps people (to)...	It helps people to save time.
People use it to...	People use it to listen to music.
It makes life easier	This machine makes life easier.
It was invented by...	It was invented by a young engineer.
It was invented in...	It was invented in 2007.
in the past	In the past, people didn't have smartphones.
nowadays / today	Nowadays, many inventions use the internet.
creative	Inventors must be creative.

GRAMMAR - DESCRIBING INVENTIONS AND INVENTORS

1. **It is used for / It is used to / People use it to** - Function of an invention.
2. **Was invented by / in** - Basic Passive Voice in the Simple Past.
3. **Sequencers** for processes (first, then, after that, finally) - Talking about how inventors work.

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1 It is used for / It is used to / People use it to...

Use: To explain what an invention is used for.

Structure:

- *It is used for + -ing.*
- *It is used to + base verb.*
- *People use it to + base verb.*

Examples:

- *The washing machine is used for washing clothes.*
- *A smartphone is used to make calls and send messages.*
- *This app is used for learning languages.*
- *People use it to save time at home.*
- *This device is used to measure your heart rate.*

2 Was invented by / Was invented in

Use: To say who invented something and when it was invented.

Structure:

- *It was invented by + person / group.*
- *It was invented in + year / place.*

Examples:

- *The telephone was invented by Alexander Graham Bell.*
- *The light bulb was invented in the 19th century.*
- *This device was invented by a team of students.*
- *The first computer was invented in the 20th century.*
- *The app was invented by a small company.*

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3 Sequencers - Describing the inventor's work process

Use: To explain how an inventor works or how an invention is developed in steps.

Key words:

- **First, then, after that, finally**

Examples:

- *First, the inventor **sees** a problem.*
- *Then, she **has an idea** for a solution.*
- *After that, she **designs and tests** a prototype.*
- *Then, the team **improves** the invention.*
- *Finally, they **present** the product to the public.*

CONVERSATION - TALKING ABOUT INVENTIONS AND INVENTORS

Sofia: What do you think is the most important invention?

Diego: Maybe the internet. It is used to connect people all around the world.

Sofia: Yes, people use it to study, work and communicate. Do you know who invented it?

Diego: It was invented by several scientists and engineers, not only one person.

Sofia: That's interesting. I think the washing machine is also very important. It is used for washing clothes and it saves a lot of time.

Diego: True. In the past, people washed clothes by hand. Today, many machines make life easier.

Sofia: Inventors must be very creative. First, they see a problem. Then, they design a solution.

Diego: Exactly. Finally, they test and improve their inventions. Maybe one day we will invent something too!

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