Inventions

Think about your home and all the things inside it. Everything was invented by someone. Many things were invented to speed up housework, some were made for our enjoyment and others help us communicate. A few make homes safer, while others make your house cleaner.

The Telephone

In 1849, Italian engineer Antonio Meucci made the first telephone. He came across the idea by accident when he was trying to find a cure for headaches. Meucci believed that headaches could be cured by electricity. During his experiments he found that when the electricity was turned on sound travelled down the wires he was using. Meucci discovered that a pair of small cones joined together by wires made a basic telephone.

Soon after, a very similar invention was produced by a man called Alexander Graham Bell. Sadly, Meucci was unable to prove that his telephone was the first and he failed to make any money for all his hard work.





The Vacuum Cleaner

At the beginning of the 20th century cleaning a carpet meant lifting it from the floor, carrying it outside and beating it until all the dust fell out. It was hard, dirty work. Surely there was an easier, cleaner way of cleaning?

Hubert Booth, a British engineer, went to watch an inventor demonstrating a cleaning machine that blew dust from the seats of railway carriages. It certainly worked! The jet of air blew dust from the cushions – into the faces of everyone watching!

Booth thought that it would be even more useful if the machine sucked the dirt up, rather than just blowing it to another place. So he put a handkerchief on a chair cushion. Pressing his mouth against it, he took a deep breath and breathed in a lungful of dust. Once he had stopped coughing he turned the handkerchief over. On the back was a dark ring of dirt where his mouth had been. Using this idea, Booth bought an electric motor and pump and in 1901 built the world's first vacuum cleaner.

The Toaster

Charles Strite was so fed up with burnt toast that he invented a pop-up toaster in 1919. This meant you didn't have to stand around waiting for the bread to toast – you just put it in the toaster and it would pop up when it was ready.





The Television

Although the invention of the television was the result of work by many people, Scottish inventor John Logie Baird is thought to be the first person to have produced an image on television.

In 1925, he created a camera which was made up of a jumble of lenses, spinning cardboard discs and electric motors. He pointed it at the head of a dummy called 'Stooky Bill'. Amazingly, it worked. An image of the dummy appeared on the little screen.

The Microwave

During the Second World War in the 1940s, Percy Spencer, an American, was working on the radar – a machine used to detect enemy aeroplanes. One day, while he was working on this machine, he noticed that a bar of chocolate in his pocket had melted. He immediately realised that the microwaves from the radar machine had heated it.

Spencer sent his assistant to buy some dry corn, and put this right in front of the machine. Switching on the power turned it instantly into popcorn.



Next, Spencer put an egg in front of the machine, flipped the switch and waited. It trembled. It fizzed. Finally it exploded, sending shell and yolk everywhere, including in the face of his assistant!

Spencer designed his invention so that it was like a mini-oven. The first microwave cost the same as an expensive car!

In the future

Now that the internet is being used more, people are inventing 'smart' machines so that owners can control them by phone. Imagine being able to put some washing on by sending a message to your washing machine. One washing machine, which was made recently, can even call out the engineer when it breaks down!

- 1. Where could all these inventions be used?
- 2. Look at the section about the telephone.

What was Meucci trying to do when he had the idea for the telephone?

 Tick one.

 cure headaches

 invent a cleaning

 machine

 send sound down a

 wire

 make money

3. Look at the section about the vacuum cleaner.

Cleaning carpets the old way was hard, dirty work.

What made it hard work?

4. The vacuum cleaner was based on another machine.

2.

What made the vacuum cleaner different to the machine that it was based on?

2 marks

1 mark

1 mark

1 mark

1 mark

Which two of the inventions were invented by accident? 1._____

no particular order alphabetical order chronological order

9. Who invented what?

10.

6.

Fill in the missing information.

How does the writer make this paragraph exciting? Give **two** ways.

Look at the paragraph beginning: Next Spencer put an egg...

| 1 | _ |
|---|---------|
| | |
| 2 | |
| | 2 marks |

7. According to the text, how might our machines be controlled in the future?

Tick one.

8. In what order do the inventions appear in the text?

order of importance

| Invention | Inventor |
|----------------|------------------|
| vacuum cleaner | |
| | Charles Strite |
| | John Logie Baird |
| microwave | |

2.

2 marks

2 marks

1 mark

1 mark

11. Where would you expect to find this text about inventions?



1 mark