

Telling Time

Fill in the circle by the correct answer. Then answer the questions.

1. One hour has _____ minutes.

- (A) 12
- (B) 24
- (C) 60

2. The hands of an analog clock show _____.

- (A) the hour and minutes
- (B) if it's morning or night
- (C) the date

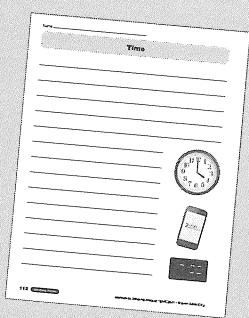
3. Is it morning or evening if a digital clock shows 9:15 a.m.?

4. Write two important facts from the text.

Write About the Topic

Use the Writing Form to write about what you read.

Write to tell how analog clocks and digital clocks show time.



Inventions

Level 1 ■

Words to Know list, Reading Selection, and Reading Comprehension questions

Adhesive Bandages

Fill in the circle by the correct word.

Adhesive Bandages

Almost everyone has worn an adhesive bandage on a cut or a scrape. Bandages help to keep the hurt area clean. They can also stop a cut from bleeding.

Earle Dickson invented adhesive bandages in 1920. Dickson worked at Johnson & Johnson. One thing the company made was tape for operations. The tape was adhesive. This means it was sticky. A doctor would put cotton gauze on a person's body after an operation. Then the doctor would put tape on the cotton gauze to keep it in place.

Dickson invented small adhesive bandages for his wife to use at home. First, he got a roll of the sticky tape. Then he cut a small square of cotton gauze. He put the gauze in the center of the tape. Dickson was able to easily make many small, safe bandages. They could be used for small cuts or burns. Dickson's invention is now known as BAND-AID® Brand Adhesive Bandages.

124 Inventions 1 Nonfiction Reading Practice • EMC 3231

Words to Know
adhesive
bandage
invented
tape
operations
cotton
gauze
invention

Level 2 ■ ■

Words to Know list, Reading Selection, and Reading Comprehension questions

Cellphones

Fill in the circle by the correct word.

Cellphones

Almost everyone has seen or used a cellphone. But have you ever wondered who invented it? Martin Cooper was the inventor. He worked at a company called Motorola. People at Motorola invented new ways for people to communicate, or talk to each other.

Cooper made the first cellphone in 1973, but no one could use it. The technology for making cellphone calls wasn't ready yet. A cellphone network was needed for people to make calls. The network would be a group of radio towers linked together.

In 1983, a cellphone network was ready. Cooper helped make the first cellphone to sell in stores. It cost almost \$4,000. Not many people were able to buy it. Today, cellphones cost much less. Many people are able to buy and use them.

125 Inventions 2 Nonfiction Reading Practice • EMC 3231

Words to Know
cellphone
invented
inventor
communicate
technology
network
radio
towers

Level 3 ■ ■ ■

Words to Know list, Reading Selection, and Reading Comprehension questions

Ballpoint Pens

Fill in the circle by the correct word.

Ballpoint Pens

László Bíró was born in Hungary. He invented a ballpoint pen called the Biro in 1938. Before Bíró made his pens, writing was a messy job.

For hundreds of years, people used quill pens. A quill is a bird feather. To write, a person would dip the quill tip in inkwell. It took a long time to write with a quill pen. It was also very messy.

Next came fountain pens. These kinds of pens had metal tips. A person would dip the tip into a bottle of ink. Some fountain pens could hold ink inside of them. They were still messy pens, though. People often got ink all over their hands.

Bíró's ballpoint pens held their own ink. They didn't spill ink because a metal ball held the ink inside. Today, millions of ballpoint pens are sold every day!

126 Inventions 3 Nonfiction Reading Practice • EMC 3231

Words to Know
invented
ballpoint pen
messy
quill pens
tip
inkwell
fountain pens
metal
millions
sold

Assemble the Unit

Reproduce and distribute one copy for each student:

- Visual Literacy page: Helpful Inventions, page 121
- Level 1, 2, or 3 Reading Selection and Reading Comprehension page and the corresponding Words to Know list
- Graphic Organizer of your choosing, provided on pages 180–186
- Writing Form: Inventions, page 122

Introduce the Topic

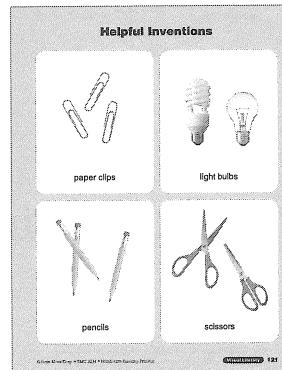
Explain to students that an invention is something that has been made for the first time. Discuss how the inventions shown are useful and helpful.

Read and Respond

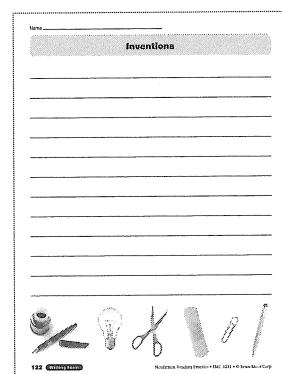
Form leveled groups and review the Words to Know lists with each group of students. Instruct each group to read their selection individually, in pairs, or as a group. Have students complete the Reading Comprehension page for their selection.

Write About the Topic

Read aloud the leveled writing prompt for each group. Tell students to use the Graphic Organizer to plan their writing. Direct students to use their Writing Form to respond to their prompt.

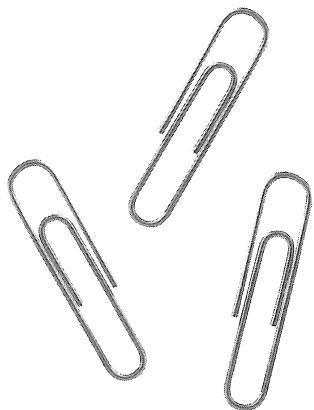


Visual Literacy

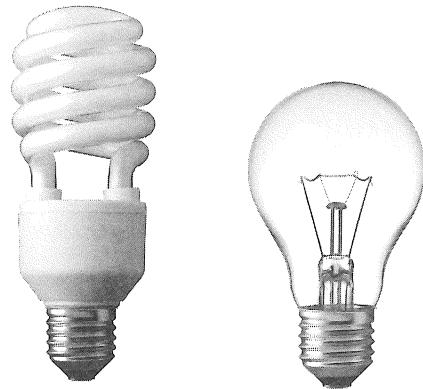


Writing Form

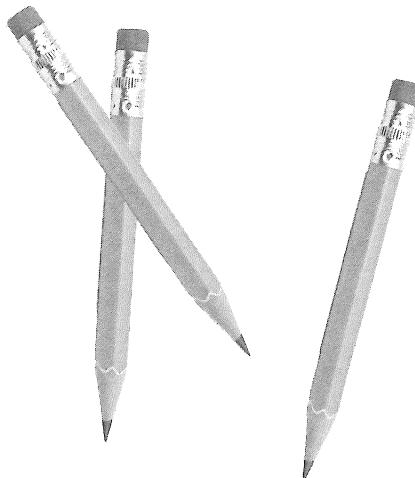
Helpful Inventions



paper clips



light bulbs



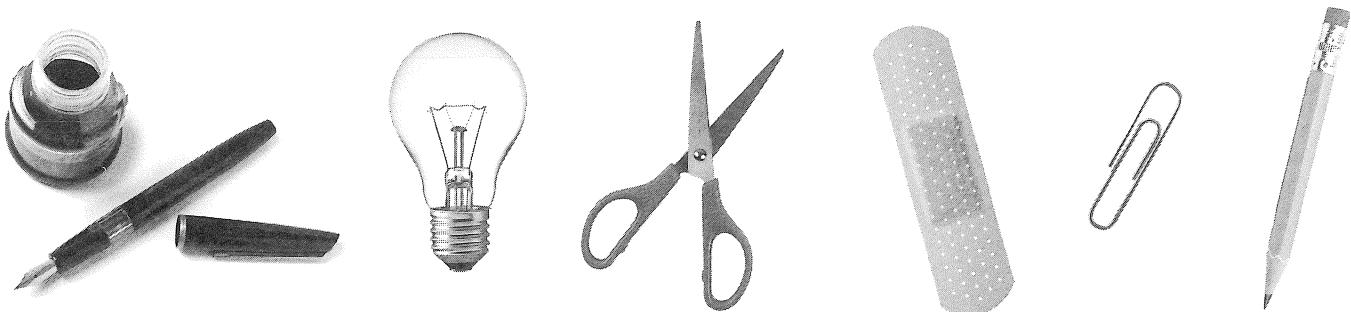
pencils



scissors

Name _____

Inventions



Words to Know

Adhesive Bandages

adhesive
bandage
invented
tape
operations
cotton
gauze
invention

Inventions ■



Words to Know

Cellphones

cellphone
invented
inventor
communicate
technology
network
radio
towers

Inventions ■ ■

Words to Know

Ballpoint Pens

invented
ballpoint pen
messy
quill pens
tip
inkwell
fountain pens
metal
millions
sold

Inventions ■ ■ ■

Adhesive Bandages

Almost everyone has worn an adhesive bandage on a cut or a scrape. Bandages help to keep the hurt area clean. They can also stop a cut from bleeding.

Earle Dickson invented an adhesive bandage in 1920. Dickson worked at Johnson & Johnson. One thing the company made was tape for operations. The tape was adhesive. This means it was sticky. A doctor would put cotton gauze on a person's body after an operation. Then the doctor would put tape on the cotton gauze to keep it in place.

Dickson invented small adhesive bandages for his wife to use at home. First, he got a roll of the sticky tape. Then he cut a small square of cotton gauze. He put the gauze in the center of the tape. Dickson was able to easily make many small, safe bandages. They could be used on small cuts or burns. Dickson's invention is now known as BAND-AID® Brand Adhesive Bandages.



Adhesive Bandages

Fill in the circle by the correct answer. Then answer the questions.

1. Earle Dickson used tape that was _____.
Ⓐ cotton
Ⓑ sticky
Ⓒ small
2. Dickson put a piece of cotton _____ on the tape.
Ⓐ adhesive
Ⓑ roll
Ⓒ gauze
3. How could someone use Dickson's bandages?

4. What is the main idea of the text?

Write About the Topic

Use the Writing Form to write about what you read.

Write to tell how Earle Dickson made his invention. Tell why it was helpful.

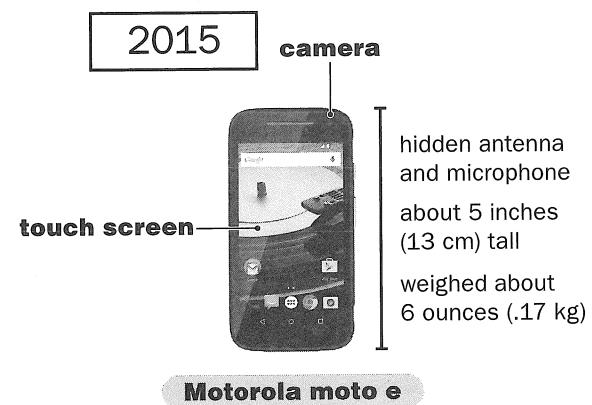


Cellphones

Almost everyone has seen or used a cellphone. But have you ever wondered who invented it? Martin Cooper was the inventor. He worked at a company called Motorola. People at Motorola invented new ways for people to communicate, or talk to each other.

Cooper made the first cellphone in 1973, but no one could use it. The technology for making cellphone calls wasn't ready yet. A cellphone network was needed for people to make calls. The network would be a group of radio towers linked together.

In 1983, a cellphone network was ready. Cooper helped make the first cellphone to sell in stores. It cost almost \$4,000. Not many people were able to buy it. Today, cellphones cost much less. Many people are able to buy and use them.



Cellphones

Fill in the circle by the correct answer. Then answer the questions.

1. Martin Cooper invented the first cellphone in _____.
Ⓐ 1973
Ⓑ 1983
Ⓒ 2015
2. Cooper worked at a company called _____.
Ⓐ DynaTAC
Ⓑ moto e
Ⓒ Motorola
3. Why couldn't people use Cooper's first cellphone?

4. List two facts about the first cellphone sold in stores.

Write About the Topic

Use the Writing Form to write about what you read.

Write to tell how cellphones were invented.
Tell what happened in order.



Ballpoint Pens

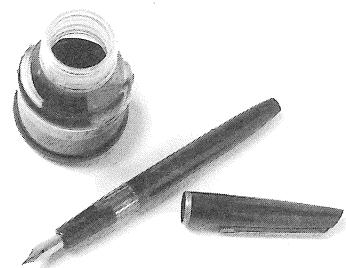
László Bíró was born in Hungary. He invented a ballpoint pen called the Birome in 1938. Before Bíró made his pens, writing was a messy job.

For hundreds of years, people used quill pens. A quill is a bird feather. To write, a person would dip the quill tip in an inkwell. It took a long time to write with a quill pen. It was also very messy.



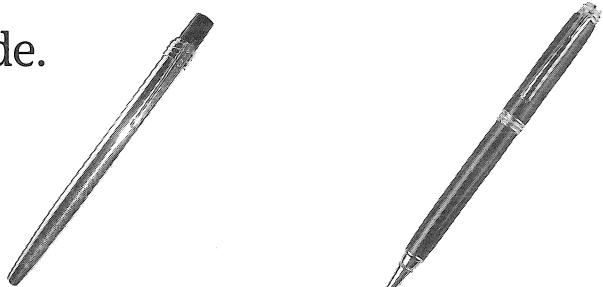
quill pen and inkwell

Next came fountain pens. These kinds of pens had metal tips. A person would dip the tip into a bottle of ink. Some fountain pens could hold ink inside of them. They were still messy pens, though. People often got ink all over their hands.



fountain pen and ink bottle

Bíró's ballpoint pens held their own ink. They didn't spill ink out because a metal ball held the ink inside. Today, millions of ballpoint pens are sold every day!



Bíró's Birome ballpoint pen

Photo by User: Roberto Fiadone

ballpoint pen today