

Name \_\_\_\_\_

mischief

procedure

dizzy

politician

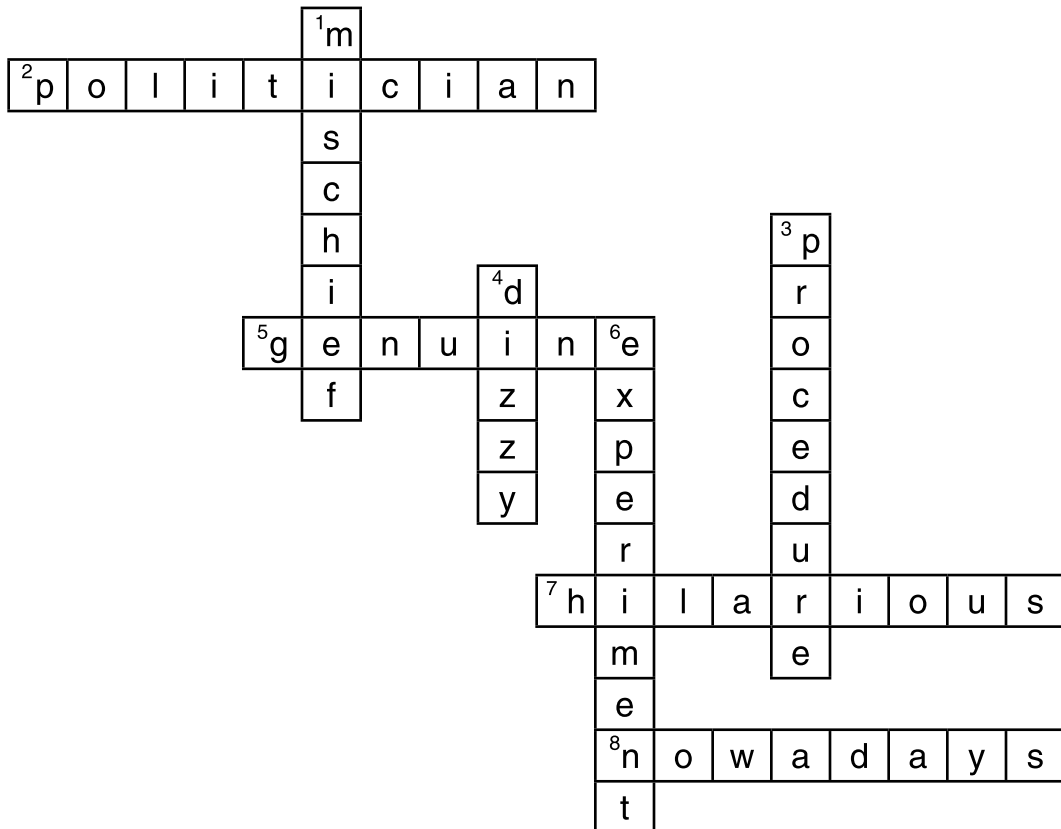
genuine

nowadays

hilarious

experiment

Look at the words in the crossword puzzle frame. Then write a clue for each word in the puzzle.



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**Across**

2. \_\_\_\_\_

5. \_\_\_\_\_

7. \_\_\_\_\_

8. \_\_\_\_\_

**Down**

1. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

6. \_\_\_\_\_

Name \_\_\_\_\_

**Read the selection. Complete the problem and solution graphic organizer.**

<b>Problem</b>	<b>Solution</b>

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Name \_\_\_\_\_

**Read the passage. Use the summarize strategy to find the most important ideas in the passage.**

## Breaking the Silence

11 American Sign Language is used by millions of people in the  
 25 United States. It is said to be the fourth most used language in the  
 36 country. The hearing impaired have used it for years. However, a  
 44 young science student named Jose Hernandez-Rebollar noticed that  
 54 few people who could hear knew ASL. They couldn't communicate  
 68 with the hearing impaired. He set out to make a new tool that would  
 82 help solve this problem. With it, he also saw a new way for the  
 hearing impaired to communicate.

### 86 **Early Years**

88 Hernandez-Rebollar worked as an engineer in his native Mexico.  
 97 He even had a part in developing what became the largest telescope  
 109 in the world!

112 In 1998, he received a grant to study in the United States. He chose  
 126 to get his Ph.D. degree at George Washington University, where he  
 137 studied electrical engineering. In 2000, he began work on his school  
 148 project. It was an idea for a new glove.

### 157 **His Invention**

159 Hernandez-Rebollar called his device the AcceleGlove. What was  
 167 the logic? People used their hands to sign. The glove could turn sign  
 180 language into spoken or printed words.

186 This process of turning movement into voice involves many steps.  
 196 It starts when the glove is put on the hand and strapped to the arm.  
 211 The glove sends signals based on where and how the hand and wrist  
 224 move. The glove compares where the hand and wrist are to where the  
 237 body is.

Name \_\_\_\_\_

A computer receives the signals. It then categorizes and links the hand movement with the correct word. An automatic computer voice then says the word.

### Uses for the Glove

The AcceleGlove can do many things. It can be useful when there is an emergency. It allows people to exchange words quickly. It can also be used to teach ASL or other forms of sign language.

The glove can translate ASL into Spanish as well as English, which can help people who move to this country. As the glove improves, there is hope that it will help to create one common sign language for the world. Each country would not need its own.

Also, the total number of words that the glove understands will increase as more studies are done. There will be fewer mistakes.

There are other uses for the glove for people who can hear. Out in the field, people in the armed forces use a communication technique that involves silent gestures. The glove can help them send silent wireless notes to one another just by using their hands.

It can also be used for fun in the online world of games. To be able to move within a video game or direct a game with the glove are new ways a person can play.

Hernandez-Rebollar's AcceleGlove has a wide range of uses and could end up meeting the needs of the hearing and non-hearing alike.



**Jose Hernandez-Rebollar's AcceleGlove helps people communicate.**

Name \_\_\_\_\_

**A. Reread the passage and answer the questions.**

**1. What is one problem and solution presented in the beginning of the passage?**

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**2. Under the heading Uses for the Glove, what are two solutions offered by Hernandez-Rebollar’s invention and the potential problems they solve?**

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**B. Work with a partner. Read the passage aloud. Pay attention to rate and accuracy. Stop after one minute. Fill out the chart.**

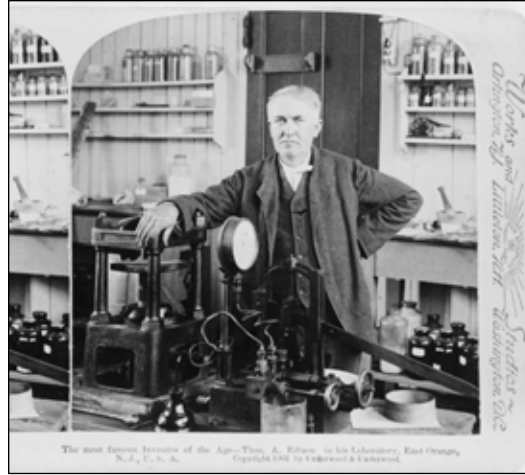
	Words Read	–	Number of Errors	=	Words Correct Score
First Read		–		=	
Second Read		–		=	

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## Thomas Edison

Thomas Edison, born in 1847 in Milan, Ohio, became one of world's greatest inventors. As a child, Edison was extremely curious about how things worked. Edison invented a variety of things, many of which led to machines we still use today. In 1877, he invented the phonograph, which later became the record player. In 1879 he made the "incandescent" light bulb. His Kinetograph of 1891 later became the movie camera.



Thomas Edison thought up over 1,000 inventions.

Library of Congress, Prints and Photographs Division

Answer the questions about the text.

1. What genre of text is this? How do you know?

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2. What is the purpose of this text?

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3. What are two text features included in the text? Why did the author include them?

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Name \_\_\_\_\_

Greek root	Meaning
<i>tele</i>	far
<i>log</i>	thought
<i>mis</i>	wrongly
<i>auto</i>	self
<i>techn</i>	art, skill

Read the words below. Then look at the Greek roots and their meanings above. Write the Greek root from each word below. Then write the definition of the word and use the word in a sentence.

1. telescope: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

2. logic: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

3. automatic: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

4. mistakes: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Name \_\_\_\_\_

**A. Read the paragraph below. Circle the words with vowel teams. Then list the words and circle their vowel teams on the lines below.**

The buzz of the alarm clock woke me up and I put on my sneakers. My trainer had stressed that it was important to maintain a schedule. Every morning, I repeated the same workout. Soon, I was speeding along on my bike. I smiled when I noticed how fast I was riding. No one will defeat me in the race next month!

- |          |          |
|----------|----------|
| 1. _____ | 5. _____ |
| 2. _____ | 6. _____ |
| 3. _____ | 7. _____ |
| 4. _____ | 8. _____ |

**B. Read the meanings of the Greek and Latin roots. Then circle the root in each word below and write the word’s definition. Use the meaning of the root to help you define the word.**

The Greek root <i>scop</i> means “see.”	The Latin root <i>ped</i> means “foot.”
The Greek root <i>bio</i> means “life.”	The Latin root <i>aud</i> means “listen.”
The Greek root <i>photo</i> means “light.”	

1. biological \_\_\_\_\_
2. microscope \_\_\_\_\_
3. audible \_\_\_\_\_
4. photocopier \_\_\_\_\_
5. pedestrian \_\_\_\_\_



Name \_\_\_\_\_

**A. Read the draft model. Use the questions that follow the draft to help you use transitions to connect ideas.**

**Draft Model**

Why is the smartphone the most important invention? It helps people stay connected. It allows people to look up information easily. You can use it to get directions. It is not just a phone—it is a tiny computer.

1. How many supporting sentences are there for this draft model?
2. Is there a logical flow from one idea to the next?
3. What transition words would fit well at the beginning of some of the supporting sentences?

**B. Now revise the draft by adding transitions to move smoothly from one idea to another.**

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Name \_\_\_\_\_

Brady wrote the paragraphs below using text evidence from two different sources to answer the prompt: *How did Ben Franklin use electrical energy and how is it used today?*

In *How Ben Franklin Stole the Lightning*, Franklin believed that lightning was electricity, and he proved it. His kite experiment showed that electricity moves through wire. At the time, lightning strikes were causing a lot of fires. So Franklin invented the lightning rod, which controlled electricity by channeling the electricity in lightning safely into the ground.

Next, electricity was distributed through wires, and modern life came to depend on it. “Energy is Everywhere” tells us that electricity is an “energy carrier,” because it’s created from one form of energy, such as fossil fuels, and produces another form of energy, such as light from a light bulb. First, the electrical energy is created in power plants and then travels to homes and factories through wires. When people “plug into it,” the electrical energy produces other types of energy. Electricity is easier to use now than it was in Franklin’s time.

Reread the passage. Follow the directions below.

1. **Draw a circle** around a concrete word that describes how Franklin controlled electricity.
  2. **Underline** a transition word that connects the two paragraphs.
  3. **Draw a box around** an example that supports the idea that electricity is created from one form of energy.
  4. **Write** a sentence from the essay that uses an adjective that compares.
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