flight

motion

direction

controlled

Name _____

passenger

impossible

launched

Use a word from the box to answer each question. Then use the

popular

Read the selection. Complete the cause and effect graphic organizer.

	Cause		Effect
First		→	
Next		→	
Then		→	
Finally		→	

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Read the passage. Use the reread strategy to be sure you understand what you read.

History of Human Flight

Wanting to Fly Like Birds

Humans have always wanted to fly. But it took a long time for them to learn how to do it. At first, they tried to copy birds. They made wings out of wood. They attached the wings to their arms and tried to fly. But birds and humans do not have the same muscles. So the wings did not work.

The first big step toward human flight was the kite. The kite was first made in China in 400 B.C. Some used kites for fun. Others used them to test the weather. Some people wanted to make flying objects that could carry people. So they made balloons and gliders.

Hot Air Balloons

The first hot air balloon was a silk bag. The bag was filled with smoke from a fire. The hot air made the balloon lighter than the air around it. Because of this, the bag rose into the sky. People attached a basket to the bag. Soon, they began to use it to travel.

Gliders

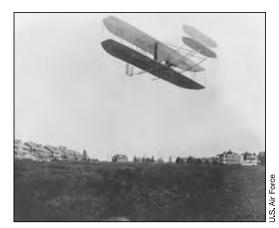
The next big step in human flight was the glider. A glider does not float like a balloon. It falls to earth. But it falls so slowly that it stays in the air a long time. Gliders are easier to control than balloons. With gliders people could fly where they wanted.

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Several inventors helped improve the glider. George Cayley made a new wing shape. He also wanted to make the glider more stable. That's why he added a tail. Otto Lilienthal made a glider that could fly far. Sam Langley focused on ways to power the flight. He put an engine on the glider.

Really Flying

Balloons and gliders made it possible for people to fly. But they did not let people travel very far. Octave Chanute studied all of the texts he could find about human flight. He wrote it all in a book. Two brothers from Ohio read the book. Their names were



The Wright brothers' first "Flyer."

Wilbur and Orville Wright. Octave's

book convinced them that they could make a flying machine.

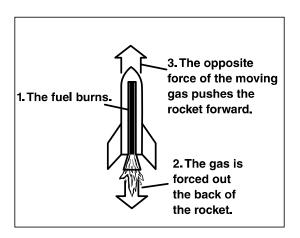
The Wright brothers were great thinkers. First they did tests with balloons and kites. Then they learned about wind. They made a glider that worked well in any type of wind. Then they worked on an engine. It had to be strong. After five years of study, they used all their knowledge to make a "Flyer." At 10:35 A.M. on December 17, 1903, the Wright brothers tested their new Flyer. It worked! Orville Wright flew 120 feet in twelve seconds. Humans had learned to fly at last!

me
Reread the passage and answer the questions.
When people made wings out of wood, why did they not work?
According to paragraph 2, why did people make balloons and gliders?
According to the section "Hot Air Balloons," what caused the silk bags to rise into the sky?
What was the effect of the Wright brothers reading Octave Chanute's book?
Work with a partner. Read the passage aloud. Pay attention to curacy and phrasing. Stop after one minute. Fill out the chart.

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

How Rockets Move

A rocket is filled with fuel. When the fuel burns, gas leaves the back of the rocket. This gas moves at a very high speed. It has a lot of force. The rocket then moves forward using a basic law of nature. This law says that every action has an equal and opposite reaction. This means that the force of the moving gas has an opposite reaction. When the gas leaves the back of the rocket, it pushes the rocket in the opposite direction. This makes the rocket move forward at a very high speed.



Answer the questions about the text.

- 1. What topic does this expository text tell about?
- 2. What text feature does this text include?
- 3. How does the text feature help you understand the text?

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Name
Read each passage below. Use other words in the passage to help you figure out the correct meaning of each multiplemeaning word in bold. On the line, write the correct meaning of the word in bold.
1. Humans have always wanted to fly . But it took a long time for them to learn how to do it. At first, they tried to copy birds.
fly:
2. The kite was first made in China in 400 B.C. Some used kites for fun. Others used them to test the weather.
test:
3. The hot air made the balloon lighter than the air. Because of this, the bag rose into the sky.
rose:
4. Sam Langley focused on ways to power the flight. He put an engine on the glider.
power:

5. Then they learned about **wind**. They made a glider that worked well in any type of wind.

6. At 10:35 A.M. on December 17, 1903, the Wright brothers tested their new Flyer. It worked!

worked: _____

- **1.** I think _____ report was very interesting. your you're
- 2. We slowly _____ the canoe down the river.
 - road rowed
- **3.** Do you think _____ going to be here on time? their they're
- **4.** I found the missing _____ of the jigsaw puzzle. piece peace
- **5.** I plan to buy the game once it goes on _____. sail

B. Read the words in each row. Underline the word that has an *r*-controlled vowel syllable. Then circle the two letters that make the *r*-controlled vowel sound.

- **1.** people really person
- 2. sharpen slowing safety
- 3. willow working waiting
- 4. horses homemade hopeful
- 5. sudden sprouting surprise

Write a tonic sentence:

Evidence is details and examples from a text that support a writer's opinion. This student wrote an opinion about how well the author uses causes and effects to show events in time order. **Topic** In "History of Human Flight," the author uses sentence causes and effects to show the history of flight in time order. The author writes that the first big → step toward human flight was the kite. Because **Evidence** some people wanted to fly, they made balloons and gliders. People rode in hot air balloons, but they were hard to control. As a result, people invented gliders. Then Sam Langley put an engine on a glider. Concluding Finally, Orville Wright flew. The author does a good statement job using causes and effects to show the time order of how humans learned to fly.

Write your opinion about a story you read. Find text evidence to support your opinion of how the author uses causes and effects to show events in time order.

vinte a topic contenee:
Cite evidence from the text:
End with a concluding statement:

Name_	

A. Read the draft model. Use the questions that follow the draft to help you think about how you can use a strong conclusion.

Draft Model

I like helicopters. They can fly in any direction. They can go fast or slow and land almost anywhere. They can be used to rescue people, to help fight forest fires, or to prevent crimes.

- 1. What is the main idea? Are helicopters the writer's favorite flying machine?
- 2. What directions can a helicopter fly in?
- 3. What kinds of birds are helicopters like?
- 4. What conclusion could be added to restate the main idea?

B. Now revise the draft by adding a strong conclusion that retells the nain idea.			