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# Before We Read

## MY LEARNING GOALS

I can

- ☐ tell about flying machines.
- ☐ find causes and effects.

## Up in the Air

Have you ever watched a bird fly? Long ago, people watched birds. The people wished they could fly, too. Today, people fly in airplanes. Before airplanes, people made other flying machines.



## Cause and Effect

A **cause** is why something happens. An **effect** is what happens.

### Cause

People wanted to fly.

### Effect

→ People made flying machines.

Some words show causes or effects. Some of these words are if, because, so, and then.

**Write an effect for the cause.**

### Cause

People do not have wings.

### Effect





## Flying Machines

People thought about flying for hundreds of years. They dreamed of flying machines. In 1799, a man built one. He made a large machine with wings. People called the machine a glider.

The glider flew. But it was not very good. This was because it was too hard to move around in the air. Other people tried to build gliders. Soon, a man named Otto made his own machines.

### MY LEARNING GOALS

I can

- read and understand a story about flying machines.
- find causes and effects in a story.



This is Otto and his glider.



This is what some gliders look like today.



**Highlight** the sentence that shows why the first glider was not good.



If you made a flying machine, what would you call it?

I would call my flying machine \_\_\_\_\_.



## Just Like Birds

Otto Lilienthal was born in 1848 in Germany. He was an engineer. That is a person who builds machines. He wanted to build a machine that would let a person fly. First, he read a lot of books about flying. Otto learned how birds fly. He looked at birds' bodies. He looked at their wings.

Otto had some new ideas about flying, too. He built different kinds of wings. Otto tested them. He saw what the wings did. He looked at how they moved through the air. Otto's wings looked like bird wings. They caught the air below them. That helped them fly. Otto made his wings bigger and stronger than a bird's wings. They could carry a person.



Otto Lilienthal



Underline the words that tell why Otto made the wings big and strong.



If you could make a new machine, what would you make?

I would make a \_\_\_\_\_ because \_\_\_\_\_.





# Let's Read

## Up, Up, and Away!

Otto built his own gliders. He made 16 of them. He made them each different. He wanted to see which one worked best. Then Otto flew his gliders. He started flying in 1891. He flew about 2,000 times! Many people watched him fly. They took pictures. People made short movies. People around the world saw the pictures and movies. People read about him in newspapers. Otto was famous.



Otto flying his glider



Circle the number of times Otto flew his gliders.



Why did Otto make each of his gliders different?

He made each of his gliders different because \_\_\_\_\_.



## From Gliders to Airplanes

Flying these gliders was unsafe. Many people were hurt. Otto died because one of his gliders hit the ground too hard. But people who wanted to fly learned from his ideas. They used Otto's ideas. They made flying machines strong and safe.

Two brothers thought Otto had great ideas about flying. The Wright brothers had their own ideas, too. In 1903, the brothers made a real airplane. They flew it. They were the first people to fly an airplane. They did it with Otto's help.



Airplanes carry many people today.



**Circle** the word that means "can hurt people."



How did Otto help the Wright brothers?

Otto helped them by \_\_\_\_\_.



# Let's Read

## Show What You Know

Use what you have learned to fill in this chart. Look back at the story if you need help.

### Cause (Why it happened)

Otto was in many pictures and movies.

### Effect (What happened)

### Cause (Why it happened)

### Effect (What happened)

Otto died.





## What Did You Learn?

Circle the letter of the correct answer.

1. Which word in the story means “a worker who makes machines”?
  - A** glider
  - B** idea
  - C** engineer
2. Otto was born in \_\_\_\_\_.
  - A** 1848
  - B** 1891
  - C** 1903
3. Otto learned about \_\_\_\_\_ to make better gliders.
  - A** birds
  - B** airplanes
  - C** movies
4. Why did Otto put big wings on his gliders?
  - A** so they could be safer
  - B** so they could carry people
  - C** so they could look like birds



LISTENING

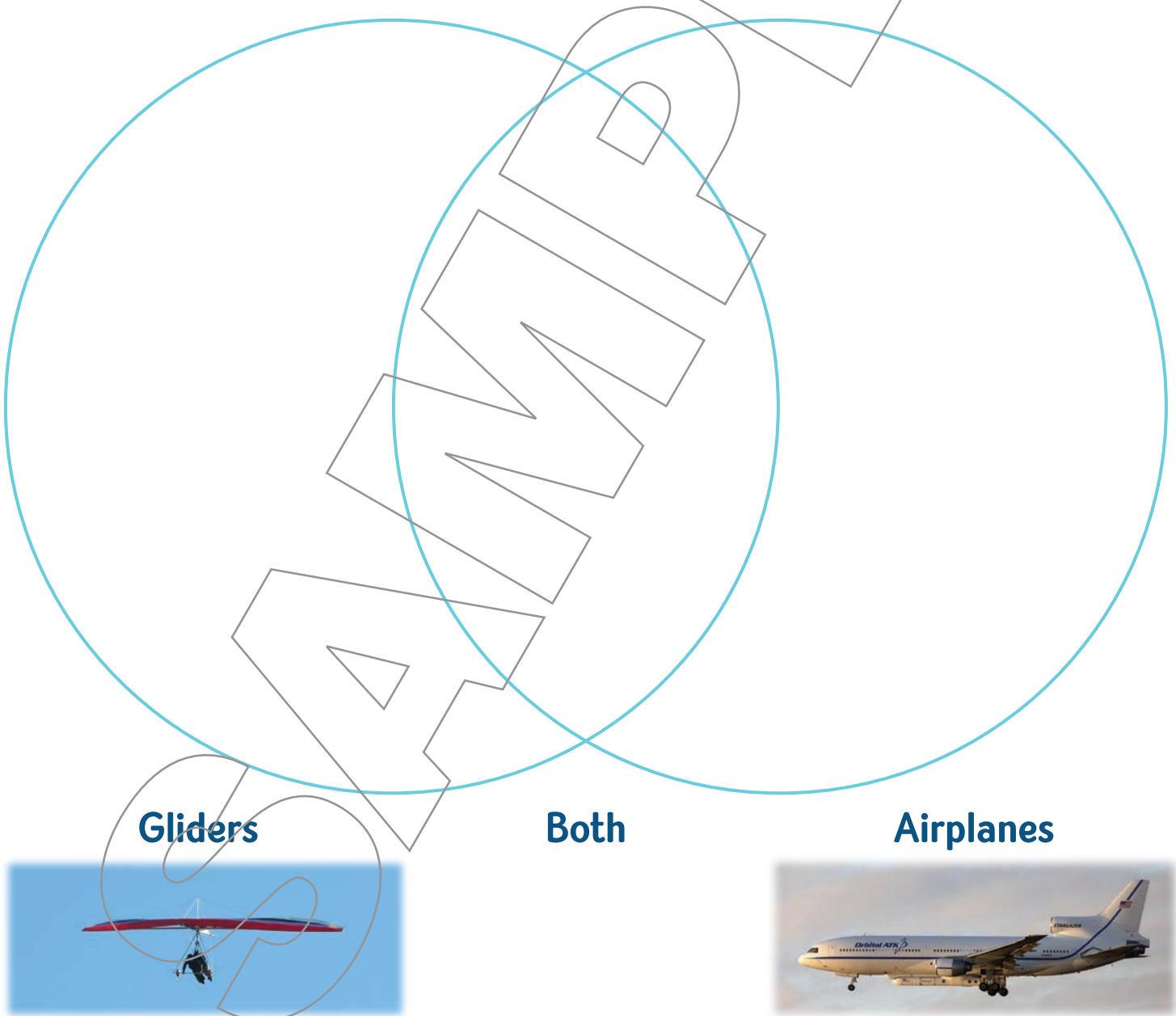
# Listen and Discuss

## MY LEARNING GOALS

I can

- ☐ understand people talking about gliders and airplanes.
- ☐ tell how gliders and airplanes are the same.
- ☐ tell how gliders and airplanes are different.

Listen to a teacher and a student talking.  
Take notes on the Venn diagram below.



# Listen and Discuss



Would you rather  
fly in an airplane or  
a glider?



Glider



Airplane



# Learning About Language

## MY LEARNING GOALS

I can

- ☐ find homophones.
- ☐ write sentences using homophones.

## Homophones

**Homophones** are special words. They sound the same. But they are not spelled the same way. They also have different meanings.

Blue and blew are homophones.

The airplane flew in the **blue** sky.

The wind **blew** the glider.

Read these sentences from the story. Then circle the homophone that fits in the sentence.

1. Other people tried [ to two ] build gliders.
2. He wanted to build a machine that [ would wood ] let a person fly.
3. He wanted to [ sea see ] which one worked best.
4. People [ red read ] about him in newspapers.
5. The Wright brothers had their own ideas, [ too to ].



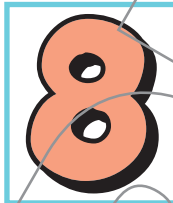
# Learning About Language

Read each pair of homophones. Circle the word that matches the picture.

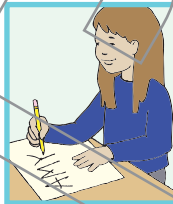
1. buy  
by



2. ate  
eight



3. right  
write



4. sew  
so



Write two sentences using these homophones.

knew new

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

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



# Write About It

## MY LEARNING GOALS

I can

- write a news story.
- use words to answer questions.

Newspapers are full of stories. The stories tell readers about things that are happening. They tell who, what, why, when, where, and how.

Pretend you are watching Otto Lilienthal fly. Your job is to write a news story about him. Be sure to tell readers all they need to know.

## Plan My Writing

Answer the questions who, what, why, when, where, and how. Then use your answers to write a story.

Who is the story about? Otto Lilienthal

What is the story about? flying a glider

Why did it happen? \_\_\_\_\_

\_\_\_\_\_

When did it happen? \_\_\_\_\_

Where did it happen? \_\_\_\_\_

How did it happen? \_\_\_\_\_

\_\_\_\_\_



## NEWS

Today is a very special day. A man named \_\_\_\_\_  
\_\_\_\_\_ flew a glider.

He flew at \_\_\_\_\_.

Glider are \_\_\_\_\_.

This man learned all about gliders by \_\_\_\_\_  
\_\_\_\_\_.

He wanted to \_\_\_\_\_.

He made \_\_\_\_\_.

Now, he is \_\_\_\_\_  
\_\_\_\_\_.

The glider flew! It looked like \_\_\_\_\_  
\_\_\_\_\_.