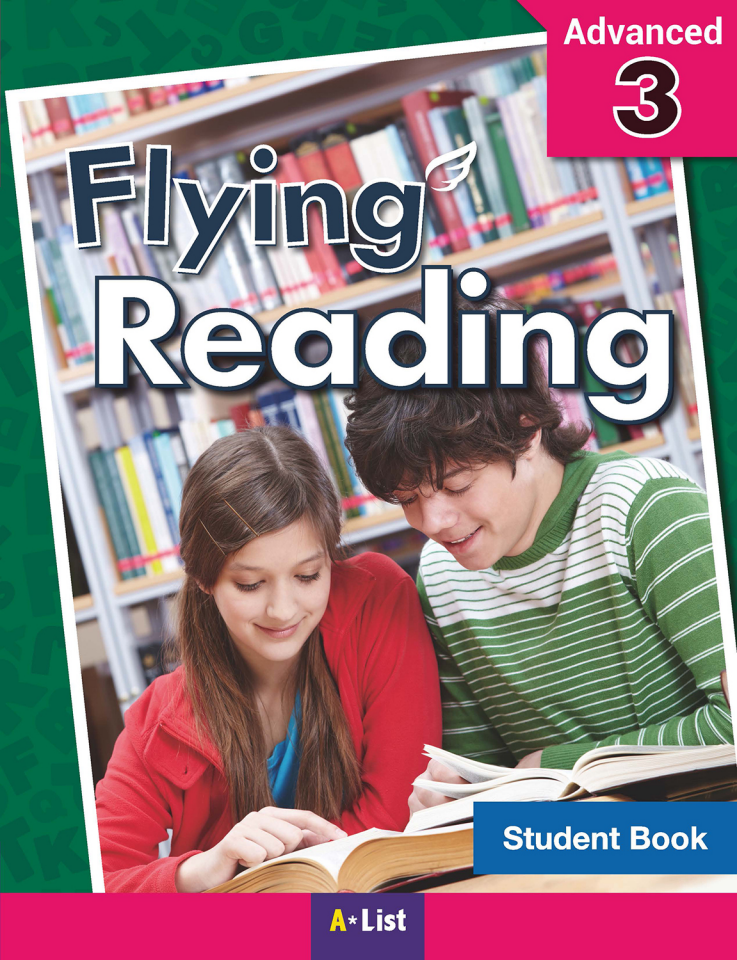


Advanced

3

A young woman with long brown hair, wearing a red jacket, and a young man with dark hair, wearing a green and white striped sweater, are sitting at a table in a library. They are both looking down at an open book on the table. The background shows bookshelves filled with books.

Flying

Reading

Student Book

A*List

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- Lesson 1** Stephen Hawking's Challenge
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- Unit 2** **17** **Writing Systems**
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Unit 1

Content Area | People
Reading Strategy | Main Idea

Isaac Newton

A

An Amazing Scientist

Thomas Edison

B



Topic Explorer

Read the sentences and match them with the pictures above. Write the correct letters in the boxes.

- 1 This scientist, who had a hearing problem, invented the electric light bulb.
- 2 This scientist, who had a speech problem, discovered the laws of gravity.

Stephen Hawking's CHALLENGE



¹ Stephen Hawking is one of the most well-known scientists in the world. You may have seen him on TV, but he used to look very different. He was once very healthy and **active**. Everything changed for him when he was 21. He learned that he had Lou Gehrig's disease. Life became much more difficult for Hawking after that.

² Lou Gehrig's disease **damaged** Hawking's body parts that **control muscles**. Unable to control his muscles, Hawking couldn't walk or move by himself. His body became **slouched**, and his head was **tilted** to the side. At first, he needed **crutches** to help him walk. **Eventually**, he had to use a wheelchair to get around.

³ Moving wasn't the only problem for Hawking. He had problems speaking, too. He couldn't control the muscles in his mouth and **throat**. This made



◀ Hawking sitting on a wheelchair

Lesson 1



▲ Hawking using a computer to talk

his **speech unclear**. Later, he couldn't talk at all and had to use a special computer to speak.

- 4 Doctors didn't have much hope for Hawking. They thought that he would only live a couple more years. Hawking showed them they were wrong, though. It has been over 50 years, and he is still living an active life.

Key Vocabulary

Write the correct paragraph numbers of the words. Then, read their definitions.

- 1 P__ active
always doing something
- 2 P__ control
to make someone or something do what you want
- 3 P__ crutch
a stick used under the arm to help walk
- 4 P__ damage
to cause harm
- 5 P__ eventually
in the end
- 6 P__ muscle
a body part that makes the body move
- 7 P__ slouched
bent forward
- 8 P__ speech
the ability to speak
- 9 P__ throat
the tube inside the neck
- 10 P__ tilted
not straight
- 11 P__ unclear
hard to understand

Hawking enjoying his life, flying like an astronaut

Word Wise

Find and circle the word that has the suffix "-ive" in paragraph 1.

READING Comprehension



▲ Lou Gehrig's disease was named after a famous New York Yankees baseball player.

Circle the correct answers.

Main Idea

- 1 What is the main idea of the passage?
- Lou Gehrig's disease changes people's appearances.
 - A disease changed a famous scientist's life.
 - People with Lou Gehrig's disease can live active lives.
 - Stephen Hawking can't control his movements or speech.

Details

- 2 How old was Hawking when he got Lou Gehrig's disease? *Details: How old*
- 12
 - 20
 - 21
 - 22
- 3 What problem do people with Lou Gehrig's disease have? *Problem*
- They can't understand what they hear.
 - They have trouble talking to other people.
 - They can't remember things.
 - They can't identify different people.
- 4 What is Hawking's appearance like? *Details: What*
- He has big muscles.
 - He has no legs.
 - His head is tilted forward.
 - His body isn't straight.
- 5 Which of the following is true about Hawking? *Fact*
- He wasn't healthy before he was 21.
 - He can't move or speak by himself.
 - He uses a special computer to understand what people say.
 - He has lost hope since he got Lou Gehrig's disease.

Reading Strategy Main Idea

The main idea is what the whole passage is about. Finding the main idea is important for understanding the key information. It usually appears at the beginning or the end of the passage.

READING Summary

Topic Sentences and Important Details

Write **Topic Sentences** or **Important Details** for each group. Then, match the sentences.

- Hawking learned that he had Lou Gehrig's disease. •

P2

a. Lou Gehrig's disease damaged Hawking's body parts that control muscles.

P3

b. Hawking couldn't control the muscles in his mouth and throat.

c. He couldn't move by himself, his body became slouched, and his head was tilted.

d. This made his speech unclear, and he couldn't talk at all later.

Cause and Effect

Complete the organizer with the correct words from the passage.

Effects of Lou Gehrig's Disease on Hawking

Cause: Having Lou Gehrig's Disease

Effect 1: Losing Control of the Muscles in His Body

- unable to [] [] []
- [] body and [] head
- > uses a wheelchair to get around

Effect 2: Losing Control of the Muscles in His Mouth and Throat

- [] speech
- unable to [] at all later
- > uses a special computer to speak

Stephen Hawking's Great Work



1 Lou Gehrig's disease made Stephen Hawking's body very weak. He became unable to move or talk by himself. However, his **mind** has stayed strong. Even with the challenges, he has **accomplished** great things in science.

2 Hawking is one of the world's greatest scientists. He has spent his life solving the **mysteries** of the **universe**. He has written many important papers. For his work, he has received many awards.



▲ Hawking getting an award for his work

3 Hawking is also a popular public speaker. He explains difficult **scientific concepts** in ways people can understand. He talks about the universe in his **lectures** around the world. **Black holes** and the **Big Bang** are his favorite topics.

4 Hawking is a **best-selling** writer, too. His books make a lot of people interested in science. *A Brief History of Time*, his first book, has sold

Lesson 2

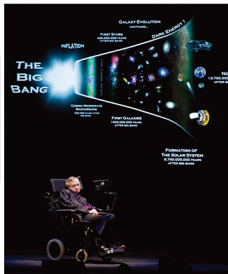
Key Vocabulary 103

Write the correct paragraph numbers of the words. Then, read their definitions.

- 1 P__ accomplish
to succeed; not fail
- 2 P__ best-selling
having very large sales
- 3 P__ Big Bang
the huge explosion believed to create everything in space
- 4 P__ black hole
an area in space that pulls everything around it
- 5 P__ concept
a thought or idea
- 6 P__ copy
a number of books, CDs, etc., that are sold
- 7 P__ lecture
a talk given to teach people
- 8 P__ mind
the part of a person that thinks and feels
- 9 P__ mystery
something that is not known
- 10 P__ scientific
relating to science
- 11 P__ universe
space and everything in it

Word Wise

Find and circle the antonym of "fail" in paragraph 1.



◀ Hawking giving a lecture about the Big Bang

more than 10 million **copies**. Hawking also wrote children's books about the universe, and they are very popular, too.

- 5 Lou Gehrig's disease gave Hawking many difficulties. He didn't let the disease stop him, though. Instead, he found ways to succeed. He has shown the world not to give up hope. Thanks to Hawking, people now understand the universe much better.



▲ Hawking's books on display at a bookstore

READING Comprehension

Circle the correct answers.

Main Idea



- 1 What is the main idea of the passage?
- Hawking became a great scientist because of his disease.
 - Many scientists study Hawking's great work.
 - Hawking's disease gave him a lot of challenges.
 - Hawking has done great work despite his challenges.

Details

- 2 Why are Hawking's lectures popular? *Reason*
- He talks about his favorite topics.
 - He chooses easy topics to talk about.
 - He explains scientific concepts easily.
 - He uses a special computer in his lectures.
- 3 How many copies has Hawking's first book sold? *Details: How many*
- | | |
|-------------------|--------------------|
| a. over 10,000 | b. over 100,000 |
| c. over 1,000,000 | d. over 10,000,000 |
- 4 Which of the following is true about Hawking? *Fact*
- He has a weak mind and body.
 - He has studied Lou Gehrig's disease all his life.
 - He can't travel around to give lectures.
 - He wrote science books for children.



▲ Hawking was born on January 8, 1942, the 300th anniversary of Galileo's death.



Logical Thinking: *Writer's Purpose*

- 5 Which of the following best paraphrases the underlined sentence in paragraph 5?
- Hawking gets help to do his work.
 - People now understand Hawking better because of his work.
 - People should study to understand the universe better.
 - Hawking helps people understand the universe a lot better.

READING Summary

Topic Sentences and Important Details

Write Topic Sentences or Important Details for each group. Then, match the sentences.

- Even with the challenges, Hawking has accomplished great things in science. •

P2 a. Hawking is one of the world's greatest scientists.

P3 b. Hawking is a popular public speaker.

P4 c. Hawking is a best-selling writer.

d. His books make a lot of people interested in science.

e. He explains difficult scientific concepts in ways people can understand.

f. He has written many important papers about the universe.

Main Idea and Details

Complete the organizer with the correct words from the passage.



Hawking's Accomplishments

Main Idea: Even with Lou Gehrig's disease, Hawking has accomplished great things in science.

Detail 1: A Great Scientist

- has written

_____ about the universe

► received many awards

Detail 2: A Popular Public Speaker

- helps people understand difficult _____

Detail 3: A _____

- makes a lot of people



Link to the World

Look at the webpage. Read the sentences and circle **T** for True or **F** for False.

The screenshot shows a webpage for the book "A Brief History of Time" by Stephen Hawking. At the top left is the "GR Books" logo. A search bar and a shopping cart icon are at the top right. Below the logo, the breadcrumb "Bestsellers > Science > Astronomy" is visible. The book cover features the author's name "STEPHEN HAWKING" and the title "A BRIEF HISTORY OF TIME" with the subtitle "From the Big Bang to Black Holes". To the right of the cover is a gold seal that says "BEST SELLER" and text that reads "#1 New York Times BESTSELLER". Below the cover, the title "A Brief History of Time" is displayed, followed by "by Stephen Hawking" and a star rating of four stars with "(1,210)" reviews. An "Overview" section states: "Stephen Hawking, one of the greatest scientists of our time, brings us closer to the mystery of how the universe began. He tells the answers in ways we all can understand." with a "Read more" link. At the bottom, the price "Hardcover \$14.95" is shown next to an "Add to Cart" button.

- 1 *A Brief History of Time* is a best-selling book. **T** / **F**
- 2 Readers will learn about how the universe began from this book. **T** / **F**
- 3 A copy of this book is over \$15. **T** / **F**

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