

four corners

WORKBOOK

Astronauts Take Flight





Write the facts about the people below using the information in the captions from the book.

Name	Nationality	What he or she did
Andrew Thomas	Australian	E.g., He made risky missions to the International Space Station.
Michael Anderson		
Helen Sharman		
Marc Garneau		
Ellen Ochoa		



Write the correct word from the Word Bank next to the definition.

[Word Bank]

research experiment	communicate award	conduct employ
------------------------	----------------------	-------------------

1. to engage the services of; hire
2. to have an exchange of thought, ideas or information
3. to study a subject or problem carefully
4. to lead, guide or direct
5. a prize or certificate that a person is given for doing something well
6. a test used to find out or prove something

employ

communicate

research

conduct

award

experiment



Circle the synonym of the underlined words.

1. There was not much room in *Mir*, but Andy said it was comfortable.
 ① house ② space ③ shuttle ④ star
2. They believed that learning about space was worth the risk.
 ① danger ② safety ③ curious ④ brave



Read the paragraphs and circle the answers.

The word *astronaut* means (1)_____. All astronauts are curious. Like sailors of long ago, they want to find out what is (2)_____.

Astronauts are also brave. They know that space travel is risky, yet they believe that learning about space is worth the risk.

1. What are the paragraphs about?

- ① the astronauts ② the solar system
③ the sailors of long ago ④ the scientists

2. What goes in (1)?

- ① 'sailors who travel the risky ocean' ② 'crews who travel many countries'
③ 'sailors of the stars' ④ 'scientists of the space'

3. What goes in (2)?

- ① in the ocean ② out there
③ out of my country ④ in the world

4. What is the best title for the paragraphs?

- ① Sailors of the Stars ② Risky Travel into Space
③ Curious Astronauts ④ Astronauts' Curiosity and Bravery

5. What might the next paragraph be about?

- ① the astronauts who traveled into space
② the scientists who built space shuttles
③ countries that spent a lot of money in building space shuttles
④ the sailors who traveled the ocean long time ago



Read the passages and answer the questions.

(1) Andy traveled to the International Space Station in 2001. There, he became the first Australian to walk in space.

(2) He made his first spaceflight in 1996. Andy was the first Australian to travel in space.

(3) Andy was chosen for training by NASA in 1992. NASA runs the US space program and trains its astronauts. Andy became an astronaut after he ① completed the training.

(4) Andy grew up to become a research scientist. He studied space and flight for many years and he became ② well known for his work.

1. Who is the story about?

- ① Andrew Thomas ② Helen Sharman ③ Michael Anderson ④ Ellen Ochoa

2. Number the paragraphs in order.

(4) → (3) → (2) → (1)

3. What is the synonym of the underlined word ①?

- ① continued ② finished ③ compared ④ conducted

4. What word can replace the underlined words ②?

- ① curious ② famous ③ risky ④ brave

5. Who are the sailors that travel into space?

- ① scientists ② doctors ③ astronauts ④ astronomers

 **Read the questions and circle the answers.**

1. Which is true about Andrew Thomas?

- ① When Andrew was a child, the first satellite was launched from Earth into space.
- ② One night Andrew saw *Mir* pass over Adelaide.
- ③ Andrew was chosen for training by NASA in 2001.
- ④ Andrew made his first spaceflight in 1992.

2. What is the science of making and launching rockets?

- ① geography
- ② geology
- ③ rocketry
- ④ philosophy

3. Why did Andrew train in Russia?

- ① for a launch of the first satellite
- ② for a stay on space station *Mir*
- ③ for building of a space shuttle
- ④ for communication with Russian crews

4. Which is true about *Mir*?

- ① There was not much room in *Mir*.
- ② It was the first space shuttle in the world.
- ③ There were not many crew members in *Mir*.
- ④ It was the first satellite in the world.

5. Why is it difficult to eat food in a weightless environment?

- ① Because food tastes bad in a weightless environment.
- ② Because we can't cook in a weightless environment.
- ③ Because everything floats in a weightless environment.
- ④ Because we can't make fire in a weightless environment.

6. What does Andrew Thomas do now?

- ① He travels into space.
- ② He repairs space stations.
- ③ He stays in the space station, *Mir*.
- ④ He employs and trains astronauts.

 **Complete the word puzzle.**

1	a	i	2	r	f	o	r	3	c	e									
	i		e						o										
	r		4	t	e	5	c	h	n	o	l	o	7	g	y			9	d
	c		u			o			d					r					o
	r		r			u			u					a					u
	a		n			r			c					v					b
	f					a			t				8	p	i	l	o	t	
	t					g								t					
														y					
						6	h	e	r	o									

Across

- 1. the armed forces that is concerned with fighting in the air
- 4. the use of scientific knowledge in industry
- 6. a person who is admired for great courage
- 8. a person who operates an aircraft in flight

Down

- 1. a vehicle that can travel through the air
- 2. to go or come back
- 3. to lead, guide or direct
- 5. the quality that makes a person able to face danger
- 7. the force that causes objects to move toward the center of the Earth
- 9. to be uncertain or unsure about

**Read the questions and circle the answers.**

- Which is true about Michael Anderson?
 - He was the first astronaut in the United States.
 - He grew up near airfields where airplanes were always taking off and landing.
 - He was a well known scientist.
 - He was a member of the crew of the space station, *Mir*.
- What was the important mission of the *Endeavour* shuttle crew?
 - They had to repair the space station, *Mir*.
 - They had to take Andy Thomas to the space station, *Mir*.
 - They had to repair the space shuttle, *Columbia*.
 - They had to build the space shuttle, *Columbia*.

**Write each number of Cause that matches its Effect.****Cause**

- Michael saw the first astronaut to walk on the Moon on television when he was nine.
- He knew that he would need an excellent understanding of science to become an astronaut.
- The shuttle broke apart during its return to Earth on 1 February 2003.

Effect

- 3 All seven members of the *Columbia* crew died.
- 2 He studied astronomy to learn about the universe.
- 1 He decided that one day he would be an astronaut.

**Read the questions and circle the answers.**

- Which is true about Helen Sharman?
 - She was the first Australian astronaut to go to space.
 - Her first job was with a technology company.
 - Helen disliked her first job so she quit it soon.
 - She decided to be an astronaut when she graduated from school.
- When Helen went to the Soviet Union for training in 1989, what did she learn?
 - how to move space ships
 - how to deliver supplies to the space station
 - how to conduct scientific research in space
 - how to get used to the feeling of gravity
- What is the title of the book Helen wrote after her flight to space?
 - Mir*
 - Seize the Moment*
 - Challenger*
 - Columbia*
- What word goes in the blank?

Space station *Mir* _____ the Earth sixteen times every day.

 - called
 - orbited
 - said
 - taught
- Reread Book page 13 and write about 3 qualities of a person whom Great Britain and the Soviet Union were looking for.
 - someone who is clam** _____
 - someone who works well with others** _____
 - someone who is strong and healthy** _____



Fill in the blanks with the correct words from the Word Bank.

[Word Bank]

equipment	conducted	communicated	spaceflights
exploration	build	future	robots

- Marc spent eight days in space on his flight in 1984. He conducted experiments in medicine.
- He also studied how robots work in space.
- This time he helped to build the International Space Station (ISS).
- One of Marc's goals is for Canada to become an important part of future missions to Mars.
- There, she helped develop equipment that scientists use to look at images from space.
- She began preparing for her first flight. She went on to make four spaceflights.
- She communicated with shuttles in space and helped guide other astronauts.
- Her goal is to improve the ISS which she believes is necessary for future space exploration.



Read the paragraphs and circle the answers.

Marc wanted to fly in space again. In 1992, Marc was chosen by NASA to enter into a special training program. He learnt how to use many of the systems on a space shuttle.

Marc made his second flight in 1996. He spent ten days on space shuttle *Endeavor*. His third flight was also on the _____. This time he helped to build the International Space Station.

Marc no longer travels into space.

- What is the main idea of the paragraphs?
 - Marc became a famous astronaut in Canada.
 - Marc became the first Canadian in space.
 - Marc wanted to fly in space again and he did it.
 - Marc wanted Canada to become an important part of future missions to Mars.
- What might the former paragraph be about?
 - Marc made his first flight with success.
 - Marc did not want to fly in space.
 - Marc became president of the Canadian Space Agency.
 - Marc did not plan to become an astronaut.
- What word goes in the blank?
 - Mir*
 - Columbia*
 - Endeavor*
 - Challenger*
- What might the next paragraph be about?
 - what Marc does nowadays
 - how Marc became president of the Canadian Space Agency
 - why Marc became president of the Canadian Space Agency
 - why Marc became the first Canadian person in space

**Read the questions and circle the answers.**

1. Which is true about Ellen Ochoa?

- ① She became the first Canadian woman to fly in space.
- ② She helped develop equipment that scientists use to look at images from space.
- ③ She was chosen by the Soviet Union to train as an astronaut.
- ④ She always liked chemistry and she was an excellent student at her university.

2. Which is true about space shuttle *Discovery*?

- ① It was the first shuttle to dock with the ISS.
- ② It orbited the Earth sixteen times everyday.
- ③ Tragically it broke apart during its return to Earth.
- ④ Its crew had an important mission to deliver supplies to the space station.

3. What word goes in the blank?

On her first mission, Ellen _____ a satellite that had been taking images of the Sun.

- ① called
- ② helped
- ③ captured
- ④ used

**Reread Book pages 20 to 21 and write the answers in your own words.**

1. What skills helped Ellen as she studied and trained hard at NASA?

math and science skills

2. What did Ellen work on her space missions?

She worked the controls for the robotic arm.

1. What is the means that runs the US space program and trains its astronauts?

(means = agency)

- ① Great Britain
- ② the Soviet Union
- ③ the International Space Station
- ④ the National Aeronautics and Space Administration

2. Why is difficult to eat food in a space shuttle?

- ① Because there is not much room in a space shuttle.
- ② Because everything floats in a weightless environment.
- ③ Because the crews are too busy to eat food.
- ④ Because the gravity affects the crews when they eat food.

3. Read the sentences. How many times did *Mir* orbit the Earth while Helen Sharman was on it?

Helen spent six days on *Mir*.
Space station *Mir* orbited the Earth sixteen times everyday.

- ① 6 times
- ② 16 times
- ③ 96 times
- ④ 36 times

4. What are non-human machines that are used to explore space and to build and fix space stations?

- ① space shuttles
- ② photos
- ③ robots
- ④ cameras

5. Why do space shuttles need a drag chute?

- ① Because it is used to explore space.
- ② Because it helps to slow the shuttle down on its return to Earth.
- ③ Because it takes photos in space.
- ④ Because it delivers supplies to the space station.



Read the names in the box and write the name that correctly matches each description.

Andrew Thomas Michael Anderson Helen Sharman Marc Garneau

1. He became Canada's first person in space. He conducted experiments in medicine while on his flights. After some successful flights, he became president of the Canadian Space Agency. Who is he?

Marc Garneau

2. She was the first British astronaut to travel to space. She was sent to the Soviet Union for training in 1989. She spent six days on *Mir*. While she was in space she studied how weightlessness affects people and plants. Who is she?

Helen Sharman

3. He decided he would be an astronaut when he saw the first astronaut walking on the Moon on television. He had an important mission while on his flights. But tragically his shuttle, *Columbia*, broke apart during its return to Earth and he died. Who is he?

Michael Anderson

4. He became interested in space and rocketry when he saw *Sputnik 1* pass over Adelaide. He became an astronaut after he completed the training at NASA. He traveled to the International Space Station in 2001. He became the first Australian to walk in space. Who is he?

Andrew Thomas



Make sentences using the words to tell the past tense.

Example she, dance, at, the, party → She danced at the party.

1. he, play, basketball → He played basketball.
2. they, tidy, their, rooms → They tidied their rooms.
3. we, carry, the, heavy, loads → We carried the heavy loads.
4. I, help, my, dad → I helped my dad.
5. she, open, the, boxes → She opened the boxes.



Write the correct verbs from the Word Bank to tell the past tense.

[Word Bank]

encourage

doubt

study

receive

decide

1. Michael's parents encouraged him to work hard towards the goal he had set himself.
2. Michael never doubted that his dream of becoming an astronaut would come true.
3. He decided that one day he would be an astronaut.
4. He studied astronomy to learn about the universe.
5. Andy received many awards and honors when he returned from space.



Make sentences using the words to tell the past tense.

Example

he, take, the, medicine → He took the medicine.

1. he, go, to, the, school → He went to the school.
2. I, drink, a, glass, of, milk, everyday → I drank a glass of milk everyday.
3. this, plant, grow, very, quickly → This plant grew very quickly.
4. they, run, to, the, ground → They ran to the ground.
5. she, eat, her, breakfast → She ate her breakfast.



Write the correct verbs from the Word Bank to tell the past tense.

[Word Bank]

make

spend

know

begin

write

1. She began preparing for her flight.
2. Marc spent eight days in space on his flight in 1984.
3. Helen wrote a book about the adventure called *Seize the Moment*.
4. Marc made his second flight in 1996.
5. He knew that he would need an excellent understanding of science to become an astronaut.



What is needed to be an astronaut? Complete the chart about astronauts.

Where do you have to be trained and why?

What languages do you have to study and why?

What do you have to be interested in and why?

What else is needed to be an astronaut and why?



Write paragraphs using the information you completed above.

Listening Practice

MEMO



Listen to the sentence and fill in the blanks.

Track #9

1. Andy was the first Australian to travel in space.
2. In 2003, Michael was chosen for the crew of space shuttle *Columbia*.
3. While in space, Helen studied how weightlessness affects people and plants.
4. He conducted experiments in medicine.
5. Ellen was chosen by NASA to train as an astronaut in 1990.



Listen to the paragraph and fill in the blanks.

Track #9

6. The word *astronaut* means ' sailor of the stars '. All astronauts are curious . Like sailors of long ago, they want to find out what is ' out there '.
7. Andy grew up to become a research scientist. He studied space and flight for many years and he became well known for his work. Andy was chosen for training by the National Aeronautics and Space Administration (NASA) in 1992 .
8. Helen took a space passport on her mission. She would have needed it if she had landed in a different country than expected on her return to Earth.
9. Robots are non -human machines. They are used to explore space and to build and fix space stations . They perform tasks that might be too dangerous for astronauts. They can also do jobs that take many hours without becoming tired. The robotic camera , Sprint, takes photos in space.
10. Ellen was chosen by NASA to train as an astronaut in 1990. Her maths and science skills helped her as she studied and trained hard. Ellen became an astronaut in 1991 . Then she began preparing for her first flight . She went on to make four spaceflights . Two of the flights were to the International Space Station (ISS).

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

Four Corners
WORKBOOK
Astronauts Take Flight

Publisher Jae-yoon Chung
Managing Director Hannah Lee
Senior Editor Jung-ah Kim
Project Editor Reese Ji
Written by Jeong Hee Choi
Proofread by Alwin G. Fontenot
Recorded by Yeasung Media Tech
Illustrated by Donghyun Lee, Youngjoo Jung
Designed by DOD Design
Printed by POD KOREA

Copyright © 2008 by Language World Co., Ltd.

All rights reserved. No part of this publication may be reproduced or distributed in any form or by any means, or stored in a database or retrieval system, without the prior written consent of Language World Co., Ltd., including, but not limited to, in any network or other electronic storage or transmission, or broadcast for distance learning.



www.lwbooks.co.kr

First Edition in 2008

ISBN 978-89-256-0027-7