



TEACHER GUIDE

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STUDENT HANDOUTS

Reading Comprehension
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3. Blasting Off
4. Mission to Mars
5. A Trip to the Moon
6. Living in Space
7. The Future of Space Exploration
• Hands-on Activities
• Crossword
• Word Search
• Comprehension Quiz



6 BONUS Activity Pages! Additional worksheets for your students

- Go to our website: www.classroomcompletepress.com/bonus
- Enter item CC4514 Space Travel & Technology
- Enter pass code CC4514D for Activity Pages.







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Becoming an Astronaut

🔰 Before You Read

- 1. Before you read, you will need to complete the Anticipation Guide that is included on the next page. Follow the instructions given on the page. Be sure to go back and complete the page after you read the passage.
- 2. Complete each sentence with a word from the list. Use a dictionary to help you.

as	tronaut	weightlessness	aeronautics	training	e	xtra	ordi	nary	mission
a)	The reso	cue dog was sent c	on an important					to find	d the skier
	who ac	ot lost in the storm.							

- b) When the volcano erupted, it was the most sight she had ever seen in her life!
- c) If you want to experience _____, you have to find a way to stop the effects of gravity so that you can float around
- d) A(n) is a person who is trained to travel in space.
- e) People who study ______ tearn about the science of motion or travel in the air.
- 1) At Spring camp, the baseball players learned many new skills and also how to improve the ones they already had.
- 3. Remember that big words often have smaller words hidden inside them. A prefix (before the base) or a suffix (after the base) may have been added on to change the original meaning or form of the word. For example, *careless* is the base word `care' with the suffix `-less' added on to show it is someone who does *not* care.

Complete the diagram to show the prefix, base and suffix of each word. The first one is done for you.

Word	Prefix	Base	Suffix
training		train	-ing
a) extraordinary			
b) exactly			
c) impossible			
d) unforgettable			

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NAME:

Becoming an Astronaut

Reading Passage

ery few people have ever been in space. Altogether, about 400 men and women have made the trip. The first **astronauts** were expert pilots. Now, scientists with many different backgrounds are sent into space. To become an astronaut, you must be very well educated, highly physically and mentally fit, and be able to train long and hard.

In the United States, the **National Aeronautics and Space Administration (NASA)** selects and trains all American astronaut You have to be an extraordinary person to get into NASA's space program. Only one hundred people are chosen for training every two years. Astronauts need to have a strong background in Math and Science, even from elementary school. This may surprise you



and Science, even from elementary school. This may surprise you - did you know that 64% of all present and former astronauts have taken part in Scouting as a child?

Training to become an astronaut is very hard work. These students take classes to learn about space and **aeronautics**. They learn about the effects that space travel has on the human body. The astronauts-to-be also get flight training, where they get to experience **weightlessness**. They float in weightless cabins and practice climbing and diving. They can also practice by floating in swimming pools. The KC-135 jet aircraft can simulate weightlessness for 20-30 seconds in a fast dive toward earth. Astronauts who train in this jet call it the "vomit comet". You can probably figure out why!

CHECK YOUR PREDICTION: How did what you just read fit with the prediction you made in the Before Reading section?

Astronauts must also learn what to do in an emergency. Their shuttle could land in the ocean, the jungle or the desert, and they must be prepared for anything! They receive training in scuba diving and parachute landing. Teamwork is always very important.

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c) What one quality do you have that would make you a good astronaut? Explain why

it would be important.

Research & Extension

- . You have just learned how difficult it's to become an astronaut. Research one astronaut that interests you and write a biographical paragraph of that person. Your paragraph should only include the main facts about this person, like: their name, age, gender, background, what missions they were involved in and when, their accomplishments, and where they are now. Your report should also include a visual representation of the astronaut.
- 2. Conduct research to learn more about NASA. You should try to discover where it is, when it opened, what happens there, etc. Write a brief report to tell about this fascinating place. Visual representations of the place would add to your report.
- 3. Knowing what you do now about becoming an astronaut, write a letter to the head of the astronaut fraining program at NASA explaining why you should be accepted into the school.

WEB CONNECTION To learn more abour

To learn more about American astronauts, read the biographies at: www.hightechscience.org/biographies.htm

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Hands-On Activity #1 Show It!

PACK YOUR BAGS FOR A TRIP TO MARS!

It can take between 6-11 months just to get to Mars. When you are there, you will have to stay nineteen months until Mars and Earth are closest dealining entire journey would take about 2 ½ years! What would you take with you2

Assume that all of your basic needs will be met by the supplies on the spacecraft. You will have just one box within which to pack your personal effects for the trip. The box can be no larger than one cubic meter.

Construct a box that fits these dimensions using cardboard or Bristol board. Then, make a list of your items and begin collecting them. Try to fit what you want to take into the box, but leave out anything that does not fit. The box must close for shipping.

Some things to consider:

- For electronics that require batteries, you must take enough batteries to last 2 1/2
- There is no cell phone or internet service in space.
- There is no cable or so ellite television in space.
- You may want to pack things that can be taken apart and reassembled to save space.
- For one year, you will be in zero gravity. The rest of the time you will be in gravity that is only 1/3 as strong as it is on Earth.
- weight of the box does not matter. The

ickly.

leaving out things that you may get tired of or grow out

Prepare an oral presentation for your class with your Mars box. Have each item ready packing and explaining to the class why you chose it.

(13)

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After You Read 🌪 **Crossword Puzzle!** Word List Assemble · Astronaut · Astronomer Crew · Disintegrate · Hospitable Launch · Lunar · Monitor Satellites · Telescope · Terrain Training · Transmit · Weightlessness Across 1. A scientist trained to make flights in space 4. To send (as in a signal) 6. Describes conditions that will support life 7. Term given to the members who work together on a shuttle 9. To watch or observe 10. To put parts together _ pad is where 11. A_ shuttles take off from 12. The result of being in zerogravity 15. Objects that orbit around another object Down 2. A scientist who studie and planets 3. Relating to the moo 5. A tract or expanse of land 8. To break up into parts 13. The instruction or lessons needed to prepare for a task **14.** A magnification tool used to see objects that are far away (18)

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Comprehension Quiz 1. Put a check mark (1) next to the answer that is most correct.

After You Read 🤛

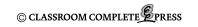
- a) Which of the following is NOT part of astronaut training?
 - O A studying space
 - **B** flight training
 - O c astrology
 - O **D** aeronautics
- b) Which of the following is a type of telescope?
 - \bigcirc **A** refractor

An Astronaut's Weightlessness





- O B retractor O **c** refresher
- O **D** reducer
- c) Which one of the following statements about spacecraft is true?
 - O A A flyby mission is a manned mission.
 - O B An orbiter spacecraft probes into the planet's surface.
 - O c Lander spacecraft are always manned missions.
 - O **D** Rover spacecraft are steered from Earth.
- d) Which one of the following statements about satellites is true?
 - **O** A satellite is an object that orbits around a planet.
 - \bigcirc **B** The Earth is a satellite of the moon.
 - O c Satellites are always man-made.
 - O **D** none of the obove are true
- e) Which of the following is NOT a function of a satellite?
 - O A To send and receive internet and cell phone signals.
 - **O B** To send supplies to the International Space Station.
 - O **c** To broadcast radio and television.
 - **D** To observe weather patterns.







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After You Read 🤛

NAME:

Becoming an Astronaut

- 3. Answer each question with a complete sentence.
 - a) What do you think is the most important quality for an astronaut to have? Give a good reason for your choice.
 - **b)** Why does it take over a year to be trained as an astronaut?
 - c) What one quality do you have that would make you a good astronaut? Explain why it would be important.

Research & Extension

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 a) answers will vary, possibilities include: brave, smart, quick-

b) They have many

things to learn.

c) answers will vary

teamwork,

etc.)

(flight, aeronautics,

emergency plans,

Ν

A

Ε

thinking, diligent;

must have reasons

