

## Greek Word Parts

- **Generalization** Many words are formed from the Greek word parts **-ology**, meaning “study of”; **phobia** meaning “fear of,” **-ism** meaning “condition of being,” and **-ist** meaning “person who.”

**Word Sort** Sort the list words by their Greek word part.

### -ology

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

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

3. \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

6. \_\_\_\_\_

### phobia

7. \_\_\_\_\_

8. \_\_\_\_\_

9. \_\_\_\_\_

10. \_\_\_\_\_

### -ism

11. \_\_\_\_\_

12. \_\_\_\_\_

13. \_\_\_\_\_

14. \_\_\_\_\_

15. \_\_\_\_\_

### -ist

16. \_\_\_\_\_

17. \_\_\_\_\_

18. \_\_\_\_\_

19. \_\_\_\_\_

20. \_\_\_\_\_

## Spelling Words

1. artist
2. tourism
3. biology
4. phobia
5. heroism
6. geology
7. cartoonist
8. technology
9. journalism
10. hydrophobia
11. violinist
12. ecology
13. patriotism
14. vocalist
15. meteorology
16. zoology
17. claustrophobia
18. capitalism
19. novelist
20. technophobia



**Home Activity** Your child is learning about four Greek word parts. Have your child explain what each Greek word part means.

# Family Times

## Summary

### **Talk with an Astronaut**

Answering questions submitted by students across the country, NASA astronaut Ellen Ochoa talks about her experiences, how she decided to be an astronaut, and what it's like to be weightless in space. Ochoa also gives her thoughts about being a mom and an astronaut, as well as the chances of making contact with other beings in space.

### **Activity**

**Press Box** Pretend you're a reporter for your local paper and interview a family member. First, write down five questions you want to ask. Then ask the person the questions and write down their answers. Give your interview a title when you are finished.



## Comprehension Skill

### **Author's Purpose**

An **author's purpose** is the main reason an author writes a selection. An author may write to persuade, to inform, to entertain, or to express ideas and feelings. An author may write with more than one purpose. What the author says and details given help you figure out the author's purpose.

### **Activity**

**Why in the World?** With members of your family, take turns making up three stories about space exploration and travel. The purpose for each story should be different. Discuss the words that are the same in each kind of story and the words that are different. Are the differences related to the different purposes?

## Lesson Vocabulary

### Words to Know

Knowing the meanings of these words is important to reading *Talk with an Astronaut*. Practice using these words.

### Vocabulary Words

**accomplishments** things that have been done with knowledge, skill, or ability; achievements

**focus** the central point of attraction, attention, or activity

**gravity** the natural force that causes objects to move or tend to move toward the center of the Earth

**monitors** screens connected to a computer that show information and instructions

**role** a part played by a person in real life; *role model*: person whose patterns of behavior influence someone else's actions and beliefs

**specific** definite; precise; particular

## Conventions

### Demonstrative Pronouns: *This, That, These, and Those*

*This, that, these, and those* are **demonstrative pronouns**. They demonstrate the position of an object. *This* and *these* refer to things that are nearby. *That* and *those* refer to things that are at a distance. These pronouns have singular and plural forms. *This* and *that* are used to indicate single objects, and *these* and *those* indicate multiple objects.

### Activity

**Near and Far** Take turns with a family member using demonstrative pronouns. One person names something around your home. Use both singular and plural nouns: *door, shoes, bananas, dog*. The other person then flips a coin. If the coin shows heads, the coin-flipper should describe the object as if it were nearby: *this door, these shoes*. If the coin shows tails, describe the object as if it were far away: *those bananas, that dog*.

## Practice Tested Spelling Words

_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Name \_\_\_\_\_

## Author's Purpose

- An **author's purpose** is the reason or reasons an author has for writing.
- An author may write to persuade, to inform, to entertain, or to express ideas or feelings.
- Authors often have more than one reason for writing.

**Directions** Read the following passage. Then answer the questions below.

Sally Ride was the first American woman in space. But as a teenager, Ride was more interested in sports than space. She trained to be a tennis player from a very early age. She even dropped out of college to pursue a pro tennis career, but she soon left the pros and decided to return to college. She was studying astrophysics when she read that NASA was looking for new astronauts.

Ride was one of 8,000 people who applied. She began the training program in 1977. In 1983, she was aboard the space shuttle *Challenger*, becoming the first American woman in space. Over the next four years, she would log 343 hours of space travel. As a child Sally Ride might have had her eye on the ball, but as an adult, her head was in the clouds.

1. What is the author's main purpose for writing the above passage?  
\_\_\_\_\_
2. When she was a little girl, what did Sally Ride want to be when she grew up?  
\_\_\_\_\_
3. Based on the number of years it took for Ride to reach outer space from the time she began her astronaut training, do you think it is easy to become an astronaut? Why or why not?  
\_\_\_\_\_  
\_\_\_\_\_
4. Based on her hours of space flight, approximately how many days was Sally Ride in space?  
\_\_\_\_\_
5. If you needed to answer questions about Sally Ride, what fix-up strategies could you use to do so?  
\_\_\_\_\_  
\_\_\_\_\_

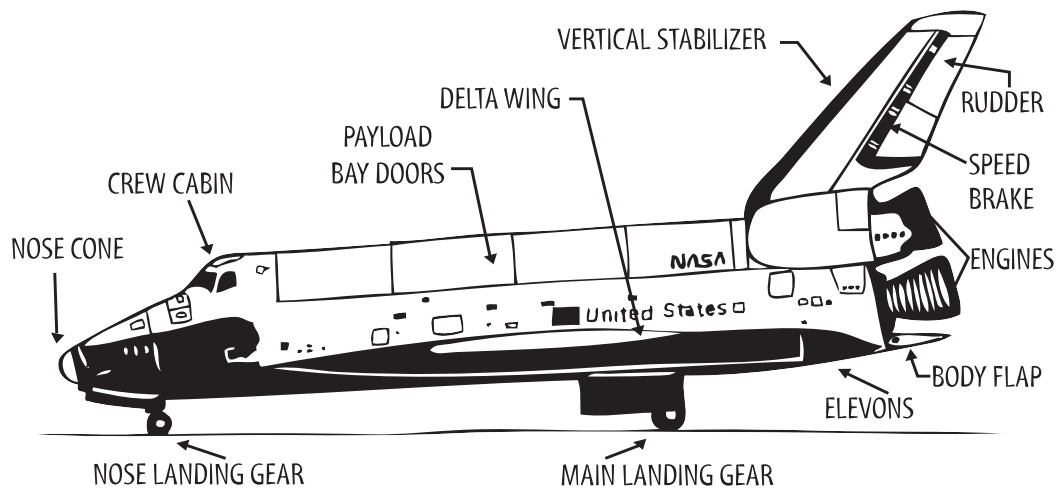
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**Home Activity** Your child answered questions about an author's purpose and fix-up strategies. Have your child practice taking notes while reading an article about space.

## Graphic Sources

**Directions** Study the diagram of the Space Shuttle and answer the questions below.



1. What does the Space Shuttle use to land when returning to Earth?  
\_\_\_\_\_  
\_\_\_\_\_
2. According to this diagram, what part of the Shuttle do you think is the *most* different from a non-military airplane?  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
3. Where is the large equipment stored for each mission?  
\_\_\_\_\_  
\_\_\_\_\_
4. How do you think the Shuttle is designed like an airplane?  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
5. Pretend you are an airplane pilot flying the Space Shuttle for the first time. On a separate sheet of paper, describe what you think would be different when landing the Shuttle compared to an airplane.



**Home Activity** Your child has answered questions about a graphic source. Find an owner's guide to a piece of equipment in the house (oven, microwave, car, radio) and look at the detailed diagram with your child.

Name \_\_\_\_\_

***This, That, These, and Those***

**Directions** Think of an exciting new product that might come from the space program. Complete the following ad for this product. Use the adjectives *this*, *that*, *these*, or *those* and underline them.

These \_\_\_\_\_ are what America has been waiting for!

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\_\_\_\_\_ This ad has been brought to you by

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**Directions** Think about an object that you treasure. Tell what makes it special. Use the adjectives *this*, *that*, *these*, and *those* correctly.

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**Home Activity** Your child learned how to use *this*, *that*, *these*, and *those* in writing. Ask your child to write sentences about things near and far, using each of the four adjectives correctly.

## Greek Word Parts

### Spelling Words

artist	tourism	biology	phobia	heroism
geology	cartoonist	technology	journalism	hydrophobia
violinist	ecology	patriotism	vocalist	meteorology
zoology	claustrophobia	capitalism	novelist	technophobia

**Double Puzzle** Unscramble the list words. Write each letter on a line. Write the numbered letters below to solve the riddle.

**What can everyone do to help the environment?**

1. OOLEGGY

\_\_\_\_\_ <sup>11</sup> \_\_\_\_\_ <sup>17</sup> \_\_\_\_\_

2. GLRTMEEOOOY

\_\_\_\_\_ <sup>13</sup> \_\_\_\_\_ <sup>7</sup> \_\_\_\_\_

3. TOTOARNCIS

<sup>16</sup> \_\_\_\_\_ <sup>12</sup> \_\_\_\_\_

4. COOLGEY

<sup>8</sup> \_\_\_\_\_ <sup>15</sup> \_\_\_\_\_

5. SPROTHOABILCUA

<sup>14</sup> \_\_\_\_\_ <sup>9</sup> \_\_\_\_\_

6. CEGHLNOOTY

\_\_\_\_\_ <sup>18</sup> \_\_\_\_\_

7. LISTEVON

\_\_\_\_\_ <sup>6</sup> \_\_\_\_\_

8. LISTAVOC

\_\_\_\_\_ <sup>5</sup> \_\_\_\_\_

9. OURNAILSMJ

\_\_\_\_\_ <sup>4</sup> \_\_\_\_\_

10. ROMESHI

\_\_\_\_\_ <sup>2</sup> \_\_\_\_\_ <sup>10</sup> \_\_\_\_\_

11. HOBODRYHIAP

\_\_\_\_\_ <sup>3</sup> <sup>1</sup> \_\_\_\_\_

1 \_\_\_\_\_ 2 \_\_\_\_\_ 3 \_\_\_\_\_ 4 \_\_\_\_\_ 5 \_\_\_\_\_ 6 \_\_\_\_\_

7 \_\_\_\_\_ 8 \_\_\_\_\_ 9 \_\_\_\_\_ 10 \_\_\_\_\_ 11 \_\_\_\_\_

12 \_\_\_\_\_ 13 \_\_\_\_\_ 14 \_\_\_\_\_ 15 \_\_\_\_\_ 16 \_\_\_\_\_ 17 \_\_\_\_\_ 18 \_\_\_\_\_

**Connect the Words** Draw a line from the word part to its Greek word part. Then write the word.

12. techno

ism

12. \_\_\_\_\_

13. zo

phobia

13. \_\_\_\_\_

14. violin

ology

14. \_\_\_\_\_

15. patriot

ist

15. \_\_\_\_\_



**Home Activity** Your child has learned to read, write, and spell words with Greek word parts. Have your child pick out the ten hardest words to review with you.

Name \_\_\_\_\_

## Author's Purpose

- An **author's purpose** is the reason or reasons an author has for writing.
- An author may write to persuade, to inform, to entertain, or to express ideas or feelings.
- Authors often have more than one reason for writing.

**Directions** Read the following passage and fill in the diagram below.

Carl Allen was sure of one thing: if he was too young to fly to the Moon with the real astronauts, he would start training for it on his own. Carl set out a training schedule for himself. He ran around his yard a lot, he monitored the temperature everywhere in his house, and he practiced floating in the bathtub on his back, pretending to be weightless. Then

Carl discovered a refrigerator box by a neighbor's trash. He started making it into his own space capsule. He had his mom help cut out a window and a small door, and he spent weeks drawing and pasting a control board inside the capsule. Even though he was still in his house, when Carl sat in his box with his football helmet on, it was like he was on the Moon!

<b>AUTHOR'S PURPOSE</b>	1. The author is writing to
<b>DETAIL</b> What did Carl make his space capsule from?	2.
<b>DETAIL</b> Name two things Carl did as part of his astronaut training.	3. Carl ran  4. Carl monitored

5. Did the author meet his or her purpose successfully? Why do you feel this way?



**Home Activity** Your child answered questions about author's purpose in a fictional passage. Discuss the author's purpose in one of your child's favorite stories.



Name \_\_\_\_\_

***This, That, These, and Those*****Directions** Match each adjective with the phrase that describes it.

- |                |   |
|----------------|---|
| _____ 1. this  | A modifies plural nouns that are close by   |
| _____ 2. that  | B modifies singular nouns that are close by |
| _____ 3. these | C modifies singular nouns that are far away |
| _____ 4. those | D modifies plural nouns that are far away   |

**Directions** Underline the word in ( ) that completes each sentence correctly.

5. (This, Those) summer I am going to space camp.
6. At (that, these) camp we will train like astronauts.
7. Astronauts must take many tests, and one of (them, those) tests involves gravity.
8. Gravity pulls us to Earth. (This, These) force becomes very great when we try to leave Earth's atmosphere.
9. Takeoff pushes the spacecraft into space. During (this, those) minutes, the body has to withstand strong G-forces.
10. In space the body floats because it is weightless. I want to imitate (this, these) experience at camp.

**Directions** Write the sentences correctly.

11. Ellen Ochoa invented an optical system. That there system "sees" flaws in a repeating pattern.

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12. Ochoa holds three patents for inventions. Them inventions all involve optical systems or robotics.

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**Home Activity** Your child reviewed *this*, *that*, *these*, and *those*. Have your child read an encyclopedia or Internet biography about Ellen Ochoa and then summarize it using *this*, *that*, *these*, and *those*.