

# **TEACHER GUIDE**

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# **STUDENT HANDOUTS**

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### **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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NAME:

A Trip to the Moon

🔰 Before You Read

1. What have you heard about man's first trip to the moon? Have you seen television footage, or heard your grandparents talk about it? Write a journal entry in your response notebook to tell what you already know about this amazing event in our history. Be sure to include a list of questions that you still have.

2. A synonym for a word is another word that has the same meaning. For example, you can run fast and you can run quickly. The two words have the same meaning. Choose a synonym from the word bank to fill in for each word in the left column. Note: You may use a synonym dictionary (thesaurus) for this activity. Then tell if the word given is a noun or a verb.

	SYNONYM	Noun or Verb?	Word Bank
<b>a)</b> shuttle			foot
			section
<b>b)</b> module			bookmark
			gather
• • • • • • • • •			rattle
c) collect			place
<b>N</b> 1 1			indicate
<b>d)</b> plant			smell
e) mark			section
			take

- w, tell if the word in **bold** is a noun or a verb by (circling) 3. In each of the sentences I the correct answer in brackets.
  - a) The waiter asked her to indicate (noun/verb) where she would like to sit.
  - at their football tickets to find out which **section** (noun/ verb) their seats b) They look were in.
  - c) The crowd began to gather (noun/verb) at the gates before the concert.
  - She planned to take (noun/verb) a taxicab home from the movie theater because d) it would be getting dark.
  - e) The judge asked the witness to place (noun/verb) his hand on the Bible.

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A Trip to the Moon

NAME:

icture a hot day in July. What types of activities might you be doing: Playing catch? Riding bikes? Swimming at a cottage? Traveling with your family? On July 20, 1969 two American astronauts were on the trip of a lifetime. Neil Armstrong, Edwin "Buzz" Aldrin and Michael Collins took their first steps on the moon!

🖤 Reading Passage

Just one day earlier, they (and a crew of five others) had lifted off from the Kennedy Space Center in Florida in a spacecraft called **Apollo 11**. The goal of this trip was to have the first successful **manned landing** on the moon. The entire trip would be just eight days, but it would mark a major event in human history.





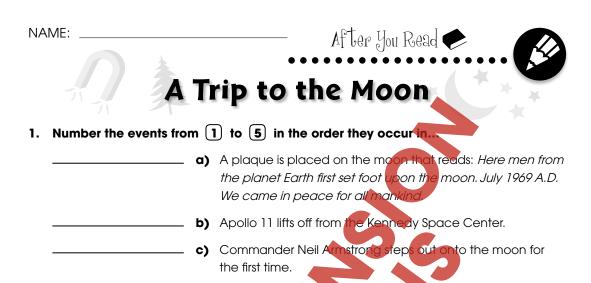
MAKE A CONNECTION: If you were on board the Apollo 11 and could only bring three items, what would they be? Explain each choice.

The Apollo 11 was made of three parts: the command module (CM), the service module (SM) and the **lunar module** (LM), the CM and SM are the main parts of the craft where the crew's quarters and flight control sections are located. The Command Module is coneshaped and is located on top of the Service Module. The Service Module is "cylinder shaped" and is located below the Command Module and above the Lunar Module. The Lunar Module is the portion that lands on the Moon and this is located below the Service Module. Together, they are called the CSM. It did not touch down on the moon. Instead, the lunar module shuffled the astronauts to the moon and then back to the waiting CSM. The nickname for the CM.was "Columbia" and the nickname for the LM was the "Eagle". You may have heard the story of Neil Armstrong reporting over his radio that "the Eagle has landed". ent about two and a half hours on the moon, collecting samples and taking The astronauts photographs. They brought back forty-six pounds of moon rocks! Before leaving, they planted an American flag, and a plaque that read: "Here men from the planet Earth first set foot upon the moon. July 1969 A.D. We came in peace for all mankind." The crew splashed down safely in Hawaii on July 24, 1969.

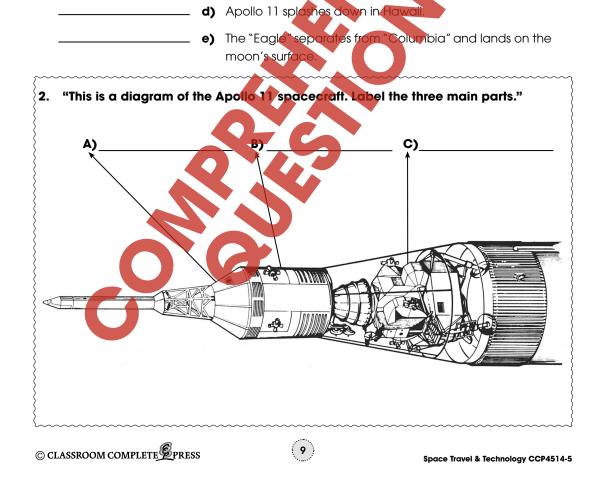
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#### **Research & Extension**

1. Recently, some people have questioned whether the U.S. actually put a man on the moon, and suggest the whole event was staged. There certainly was a lot of pressure on the U.S. at the time to be the first country to set foot on the moon. Could it have been so much pressure that they made the whole thing up? Conduct research to find out the arguments made to support that the whole thing was a hoax. Track your findings in a T-Chart that lists each point given to prove why it was all a hoax. Then, visit the following website:

http://science.nasa.gov/headlines/y2001/ast23feb\_2.html to read what NASA has to say about this conspiracy theory. Add the counter-arguments to your chart. What do you think? Write an expository essay for or against the conspiracy theory. (Use the five paragraph format for your essay. The chart will help you.)

- 2. You may have noticed that the spacecraft on this mission was the Apollo 11. Did you happen to wonder if there were other Apollo spacecrafts? Conduct research into this and write a report that details what happened to all of the other Apollo spacecraft.
- 3. In this creative writing assignment, you will tell the fictional story of what happened on Apollo 10 - the one before Apollo 11. Consider what might have happened on an earlier and failed mission. Be sure that your story includes a lot of action and description.

### WEB CONNECTION

To watch footage of the first moon landing, visit the NASA video library at: www.hq.nasa.gov/alsj/a11/video11.html To hear a recording of Neil Armstrong stepping onto the moon, visit:

www.nasa.gov/mission\_pages/apollo/apollo11\_audio.html

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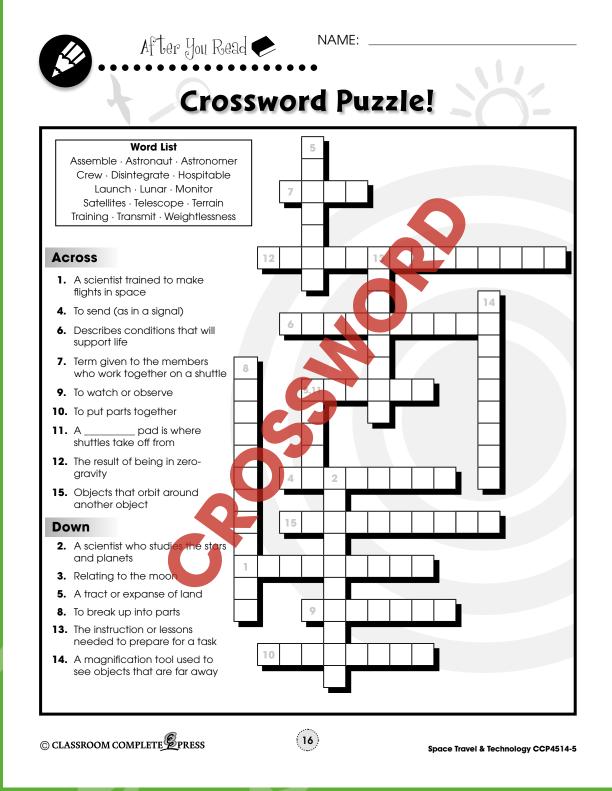
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## Hands-On Activity #5 Test It! **TOYS IN SPACE**

In this activity, you will have the chance to make predictions about how raditional toys will work in space. In scientific experiments, we call these predictions hypotheses. Then, you will have a chance to observe the toys at work and draw a conclusion. These steps are part of the scientific process.

Many of the toys that we play with on Earth work well because gravity helps them to function. Have you ever wondered how toys might work in zero gravity conditions? Some toys might be more fun, and some might be less! Complete the first three columns of this chart. Then, go to: http://observe.arc.nasa.gov/nasa/exhibits/toys\_space/toyframe.html to watch the toys at work. Complete the final two columns after you watch each toy.

ΤΟΥ	A) Background: How does gravity help this toy work on Earth?	B) Hypothesis: How will this toy be effected by zero gravity?	C) Observation: What did you learn about how it actually performed in space?	D) Conclusion: Make a statement about what you learned compared to your hypothesis.
1. Ball in Cup		\$		
2. Jacob's Ladder	S			
3. Yo - Yo				
4. Wind-up Toy				
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After You Read 🌪 NAME: **Comprehension** Quiz 1. Put a check mark (1) next to the answer that is most correct.

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?
  - O A refractor

## An Astronaut's Weightlessness



- $\bigcirc$  **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 A satellite is an object that orbits around a planet.
  - **B** The Earth is a satellife 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.

