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STUDENT HANDOUTS

• Reading Comprehension

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- Enter item CC4514 Space Travel & Technology
- Enter pass code CC4514D for Activity Pages.







Living in Space

- 1. You've probably already wondered what it would be like to live in space. In your response notebook, pose five "I wonder" statements about life on a space station. For example, "I wonder what kind of food astronauts eat".
- 2. Complete each sentence with a word from the list. Use a dictionary to help you.

	crew expensive	disintegrate monitor	assemble experiment	launch
a)	The baseball ho willing to spend	t we wanted was far too		for what he was
b)	•	not realize that they wou ote controlled car thems		all the
c)		the nurse to take the party		ange his bandages
d)		the class had to design t ght and water have on th		
e)	The designer de	ecided to save his new ho	andbag for the spring .	
	Of this flew line.			
f)		to the site of the wreck, the	ney knew it would take to clean up the mess.	a whole
f) g)	When they got	of trained people	to clean up the mess.	
g) Ur	When they got The walls of the eyes as the watescramble the walls	of trained people	to clean up the mess. righ	nt before her very
g) Ur	The walls of the eyes as the walls scramble the when you unscramb	of trained people riverbank seemed to ers rushed in. ords below. These are the	to clean up the mess. righ	nt before her very
g) Ur W	The walls of the eyes as the waterscramble the when you unscrare	of trained people riverbank seemed to ers rushed in. ords below. These are the letter of the l	to clean up the mess. righ	nt before her very
g) Ur W a)	The walls of the eyes as the waterscramble the when you unscrare	of trained people riverbank seemed to ers rushed in. ords below. These are the letter of the l	to clean up the mess. righ	nt before her very
g) Ur W a) b)	The walls of the eyes as the water scramble the when you unscram	of trained people riverbank seemed to ers rushed in. ords below. These are the letter of the	to clean up the mess. righ	nt before her very

expensive	word beside its i engineer	assemble	disintegrate	microbe
launch	monitor	compartment	experiment	suction
	a)	to separate into parts	or fragments; to bre	eak up
	b)	to fit together or put p	oarts together	
	c)	costly; high-priced		
	d)	a test done to demon	strate or discover so	mething
	e)	to watch or to check	on	
	f)	to hurl or send forth wi	ith some force	
	g)	a microorganism, espe	ecially one causing o	disease
	h)	a separate section or	category	
	0	a sucking pressure		
	5	one who operates tec	chnical equipment	

Russia

c) <u>Underline</u> the words that are names of space stations or parts of space stations.

(11)

Circle the words that were not used in this section.

Polyakov

swimming

exercise

b)

weightlessness

Zvezda

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Japan

orbits

shaving

Salyut

Australia

Canadahand

toothbrush

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Reading Passage

NAME:

Living in Space

n November, 1998, the first part of the International Space Station (ISS) was launched into space. It was the control module, Zarya. Many more parts continued to be **launched** and attached for the next eight years. Presently, the ISS **orbits** around Earth sixteen times a day at 17 000 miles per hour. That means that the **astronauts** on board get to watch sixteen sunrises and sunsets each day!



The ISS looks like a small toy in outer space, but it is quite large. It weighs almost 500 000 pounds, and is bigger than a football field. You may be wondering how we got something so big off the ground and into space. The answer is that the ISS was **assembled** in space. It was launched there in over 100 pieces and astronauts had to construct it while in orbit. You can probably imagine that this is an expensive project, too. It is estimated that the total cost of the ISS will be \$37 billion when it is completed in 2010. This is why many countries have cooperated to make it happen. Canada, Russia, Japan, Brazil, **ESA** (11 European countries) and the United States jointly own the ISS

Each country contributes and maintains different parts of the ISS. Canada was responsible for the robotic arm, Canadarm, Russia has been a very important partner because Russia was the first country to launch a space station, Salyut, in 1971. It's other space station, Mir, was the first consistently inhabited long-term research facility in space. It was in space from 1986 to 1996. One Russian cosmonaut, Valeriy Polyakov, holds the record for the longest spaceflight. He was aboard Mir for more than fourteen months in one long trip. The ISS service module, Zvezda, was contributed by the Russians. Zvezda was originally meant to be part of Mir 2.



CHECK FOR UNDERSTANDING: Create a chart in your notebook with six columns: Who? What? Where? When? Why? How? Label the chart: The International Space Station. Fill in the chart with as much information about the ISS as you can, based on what you have read so far. Notice any blank columns, and see if you can find more information to fill them from the next part of this section.

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After You Read

Living in Space

- 3. Answer each question with a complete sentence.
 - a) Why was the International Space Station assembled in spa
 - b) Why would you need a suction fan to shave in space
 - c) Why was Russia an important partner in the ISS pr

Research & Extension

- 1. It's not all work and no play for astronauts in the little amount of spare time that they do have, they like to read, watch movies and email their friends and family. Most astronauts agree that watching the view of the Earth from space never gets boring. Think about one of your favorite games to play. Consider the effects of microgravity on the game. How would it change things? What changes to the rules and equipment would you have to make to play your game on the space station? Create a poster-sized report that includes a diagram or drawing of your \$5-version game, and details the rule and equipment adjustments you made.
- 2. It takes a crew of highly trained scientists and astronauts from around the world to do the jobs needed on this ISS. In 2007, the crew of the Expedition 14 were the ones who got the job. Read more about these people and their work at: www.nasa.gov/audience/ forkids/kidsclub/flash/nowinspace/Crew_14_on_ISS.html

Prepare a Who's Who? report of the ISS crew in 2007. Include information about the individuals and their roles on the ISS. Conduct further internet research as needed to gather information. Then, find out who is on board the ISS today.



WEB CONNECTION

To take an interactive spacewalk from the ISS, visit: www.discovery.com/ stories/science/iss/i_spacewalk.html

To learn more about spacesuits and what astronauts wear, visit: www.nasa.gov/audience/forkids/home/F_Best_Dressed_Astronaut.html





Did they actually put a Man on the Moon?... Or was the whole thing one big hoax? You be the judge in...

The Apollo 11 Conspiracy

What the conspiracy theorists say	What NASA says	l agree with
	7	

MY ESSAY

My introduction needs to explain what my essay will be about, and just state what my opinion is. I'll be sure to in lude the following points:

The three strongest points that I will use in my argument (one per paragraph):

In my conclusion, I want to restate my opinion and wrap up the essay.

Remember to write using proper paragraphs and to use linking words.

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NAME:





Word Search

Find all of the words in the Word Search. Words are written horizontally, vertically, diagonally, and some are even written backwards.

exploration astronauts module mission spacecraft weightlessness lander reflector orbiter experiments refractor space station microgravity laboratories telescope sate launch aeronautics flyby

Α	С	D	R	F	U	V	W	Χ	Υ	Z	Α	В	C	D	Е	S	F
V	Χ	W	Ε	-	G	Н	Τ	L	Ε	S	S	Z	E	S	S	Р	K
Υ	Α	В	F	F	O	Α	С	F	O	H		7	K	L	М	Α	Ν
В	0	Р	R	Е	F	L	Е	С	7	0	R	Q	R	S	R	С	V
Υ	Α	В	Α	С	F	Ν	0		1	A	R	0	L	Р	Χ	Е	G
L	В	D	С	Α	Χ	Υ	Χ	F	D	+	S	С	В	V	Χ	S	D
F	М	Ν	Τ	T	F	Α	R	C	F	C	Α	Р	S	Χ	В	Τ	Ν
Ζ	-	С	0	Ν	R	Ν	0	М	Ν	0	Q	Е	T	V	С	Α	Ν
М	С	V	R	Z	Χ	В	V	M	Υ	С	G	L	U	Н	1	Τ	K
Q	R	S	Τ	U	٧	X	E	Y	Z	Α	В	С	Α	Е	F		G
Н	0	R	В	-	1		R	T	Н	1	J	K	Ν	Ν	Р	0	S
М	G	Ν	0	Р	Q	R	S	T	U	٧	Χ	Χ	0	Υ	D	Ν	Е
Q	R	T	Ν	0	1	S	S	-	М	G	Н	-	R	K	L	Е	-
G	Α	Н		7	K	L	Τ	М	Ν	0	Р	Q	T	S	U	V	R
В	V	D	A	E	R	0	Ν	Α	U	Τ		С	S	Е	Н		0
Α	-	В	C	P	U	С	Е	Z	Е	U	Н	В	Α	T	D	Е	T
Α	T	В	C	0	J	K	М	0	Ν	Q	С	R	S	-	T	U	Α
В	Υ	Е	N	С	-	Υ		0	Е	W	N	М	R	L	U	R	R
Q	Χ	T	U	S	Χ	Υ	R	R	D	D	U	В	Χ	L	Е	N	0
W	R	T	Υ	Е	U	F	Е	Н	В	U	Α	В	R	Е	W	D	В
J	K	R	Ε	L	Н	F	Р	В	R	D	L	W	J	T	F	В	Α
Α	В	D	G	Е	Н		Х	K	L	М	N	Е	Е	Α	0	Q	L
М	Ν	F	U	T	U	R	Ε	R	S	Τ	U	W	Χ	S	T	U	V

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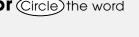
NAME:





Comprehension Quiz

Circle the word **TRUE** if the statement is TRUE **Of** Circle the word **FALSE** if it is FALSE.



a) Astronauts at the International Space Station get to watch more than a dozen sunrises and sunsets each day

b) Since the ISS is so large and heavy, special launchers were designed to get the unit into space.

TRUE FALSE

c) Crews of the ISS rotate in and out about once per

TRUE FALSE

d) Microgravity provides us an opportunity to conduct experiments that we

FALSE TRUE

e) Since astronauts need to keep up their strength, they work very short days, and

TRUE

3. Answer each question with a complete sentence.

a) Why is an astronaut an "extraordir



b) Explain the context of the phrase The Eagle has landed."

c) Give an example from this book that proves "If at first you don't succeed, try, try

d) Why do so many astronauts and scientists seem so interested in finding evidence of water on other planets and moons?

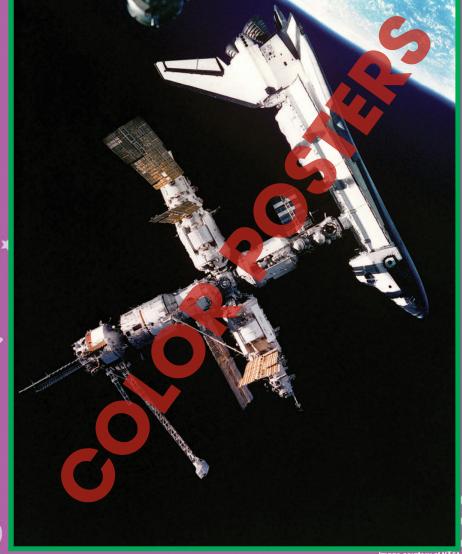
e) Why is the cooperation of many countries needed on a project like the ISS?

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Shuttle Atlantis Docked on the **MIR Space Station**

• • • • • • • • • • • • • • • • • • • •





After You Read

NAME:	

Living in Space

3.	Answer	each	question	with a	complete	sentence
----	---------------	------	----------	--------	----------	----------

L \	\A/b\\alpha		tion form to	
D))	u need a suc	tion ian to	shave in space?

c)	Why was Russia	an important	partner in the	e ISS project?
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Research & Extension

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To learn more about spacesuits and what astronauts wear, visit:

www.nasa.gov/audience/forkids/home/F_Best_Dressed_Astronaut.html





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3.

- too big/heavy to launch; easier to assemble in microgravity conditions
- b) To catch hairs so that they don't float around and get in the way
- c) had experience with Mir; for financial contribution

Crossword Puzzle!



		N			R								
W	E	ı	G	Н	T 13	L	E	s	S	N	E	S	s
		A											
ı		R			_								
	C	R	E	w									
		E			_								
		T											

A T

H O S P I T A B L E

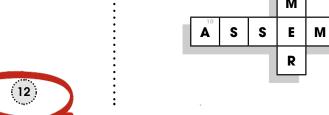
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T R A N S M I T
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