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## **STUDENT HANDOUTS**

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NAME:

# **Mission to Mars**

🔰 Before You Read

- 1. Activate Your Prior Knowledge: Visualize what a Martian looks like. Draw a sketch in your notebook. Where does the information you used to create this image come from? Write a brief response of why you think a Martian might look like this
- 2. An antonym of a word is the opposite meaning. For example, sad is an antonym for happy. For each of the words given below, give an appropriate antonym. You may wish to use a dictionary to help you.



<b>3.</b> Choose a prefix or a suffix from the bubble below that you could add to each of the words above to make a new form of the word. Write the new word, and tell how the
meaning is changed.
a) in
b)
c) d
d): un- / }
e) : ful
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NAME: Reading Passage

## **Mission to Mars**

n January of 2003, two Mars Exploration Rovers, called Spirit and Opportunity, landed successfully on opposite sides of the planet. This exciting event was the final step in a number of earlier successes and failures at trying to get to Mars.

In the section Blasting Off, you read about the different types of **spacecraft** that are sent to explore a new planet. In 1964, the Mariner 4 made the first successful flyby. After two more successful flyby



missions, an orbiter/lander was sent in 1971. In 1975, the Viking 1 and 2 orbited and landed on Mars to send more information back to Earth. It wasn to the 1996 that we were able to take the next step of sending a rover called Pathfinder. This sounds like we have had great luckbut there were twenty-four failed missions between 960 and 2003.



Spirit and Opportunity were sent to Mars to collect more in-depth information about the terrain and atmosphere of Mars. These rovers are like little science laboratories on wheels. They drive around and take data to send back to Earth so that we can understand what things are like on Mars. Each rov er weighs over 400 pounds. Scientists only expected them to last for about ninety days, but after two and a half years, they continued to gather useful information.

One of the most important things the Mars Exploration Rovers have taught us is that there might have once been life on Mars. Today, we consider Mars an extreme planet. It is rocky, cold, lifeless and home to one of the largest volcances in the solar system! However, by collecting samples and looking more closely at the rocky areas, the rovers have given us evidence that there may have once been water on Mars. There may have also been an environment that could have supported life. This is called a **hospitable** environment. For now, we can only imagine what type of life forms might have been there!

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Opportunity gathering information about?

d) What object did the Spirit and Opportunity discover on that is the biggest one in the solar system?

do the rocks on Mars show us that there once might

type of environment do scientists now wonder that re might have been on Mars?

Number the events from 1 to 5 in the order they occur in...

Pathfinder lands successfully on Mars.

first successful flyby mission is sent to Mars.

c) Opportunity and Spirit land on opposite sides of Mars to begin their exploration of the planet's environment.

d) Viking 1 and 2 orbit Mars and land to send back images and data about the planet.

e) The first failed mission to Mars is attempted. It is the first of twenty-four following failures.

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### Research & Extension

- 1. If you could re-design the Mars rovers, what features would you add to them? What additional purposes would you want them to fulfill and why? Find a photo of one of the rovers and cut it out. Add your own design changes to it by either sketching onto the photo, or by tracing the photo and adding to it. Either way, try to make your sketch look as realistic as possible. Plan a presentation that will explain to viewers what your rover will do and why you thought it was an important feature to add.
- 2. Research the ground that the rovers have covered already. Prepare a model (a beach ball, balloon or some other object could be used) to show the points of landing for Spirit and Opportunity, and the land they have covered since landing. Draw their routes right onto the model. Be sure to use different colors for each rover. Add to the model any points of interest or features of Mars they have discovered. Next, sketch out where they plan to go next, and try to draw that in as well. Prepare a presentation to discuss the route that the rovers have taken and what they have found.

#### WEB CONNECTION



To play some Mars games, try: http://mars.jpl.nasa.gov/funzone\_flash.html Take a Mars Adventure at: http://spaceplace.nasa.gov/en/kids/mars\_rocket.shtml Learn more about the rovers and see where they are now at:

http://marsrovers.nasa.gov/home/

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Υοι	u've probably alr	Living ill eady wondered what it	n Space	pace. In your		
res exc	ponse notebook, ample, "I wonder	, pose five "I wonder" sto what kind of food astro	atements about life on a nauts eat".	space station. For		
Co	mplete each se	ntence with a word fro	om the list. Use a dictio	nary to help you.	responses will vary; should be a list of 5 l	•
$\left( \right)$	crew expensive	disintegrate monitor	assemble experiment	launch	Wonder statements	
a)	The baseball ha	at we wanted was far to	0	for what he was	a) expensive	•
	willing to spend	l.				• • • •
b)	Her parents did	not realize that they wa	ould have to	all the	<b>b)</b> assemble	
$\sim$	The dector told	the purse to take the p	ationt's topporature ch	anao his bandagos	c) monitor	
C	and continue to		his breathing.	unge nis bunuuges		
d)	Each student in	the class had to design	n their own	to show the	+) experiment	•
	effect that sunli	ght and water have on	the rate of plant growth	ı.	launah	•
e)	The designer de of his new line.		•			
f)	When they got	to <u>the</u> site <u>of t</u> he <u>wre</u> ck,	they knew it would take	a whole	f) crew	
·	AC	of trained people	e to clean up the mess.			
<b>g</b> )	The walls of the	riverbank seemed to	righ	nt before her very	g) disintegrate	
~~~		ers rushed in.			a) E	
W	hen you unscra	mble it, write the letter	of the sentence from a	question 2 beside it.	<b>b)</b> C	
a)	)	HULNAC		()	<b>c)</b> B	•
b)	)	ROTNMIO			<b>d)</b> G	:
C)	)	EMLSBAES			<b>e)</b> A	:
						:





