

How Learning Has Changed

Fill in the circle to complete the sentence. Then answer questions 3 and 4.

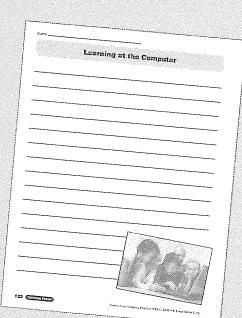
1. In the past, students went to _____ to check out soccer books.
Ⓐ video stores
Ⓑ websites
Ⓒ libraries
2. Today, computers help people learn in a _____ way.
Ⓐ faster
Ⓑ sillier
Ⓒ harder
3. The text compares how people learned in the past with learning today. What is the main idea of the first paragraph?

4. Why do you think libraries today have computers, books, and other ways to find information?

Write About the Topic

Use the Writing Form to write about what you read.

Write to tell about learning. How did people learn in the past? How can they learn today?



Curiosity Rover

Level 1 ■

Words to Know list, Reading Selection, and Reading Comprehension questions

A Special Machine

Fill in the circle to complete the sentence.

A Special Machine

There is a special machine on the planet Mars. It's a rover called Curiosity. Where did it come from? It came from Earth. Scientists at NASA worked hard to build the Curiosity Rover. It left Earth in 2011 and got to Mars in 2012. Ever since then, Curiosity has been sending information back to Earth. The rover moves along the surface of Mars. We have learned a lot about Mars from this rover!

Curiosity uses an arm to pick up rocks and soil. The arm is seven feet long. The rover can pick up a rock with its arm. The arm puts the rock inside the rover. Curiosity can study what the rock is made from.

Scientists on Earth tell Curiosity what to do. Talking to Curiosity is something like playing a video game. From Earth, scientists can see what Curiosity is doing. The rover has 17 cameras. It takes a lot of pictures. It sends a lot of information back to Earth!

Words to Know

machine
Mars
rover
Curiosity
Earth
scientists
NASA
information
surface
video game
cameras

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Curiosity Rover 2

Level 2 ■ ■

Words to Know list, Reading Selection, and Reading Comprehension questions

Working on Mars

Fill in the circle to complete the sentence.

Working on Mars

We live on the planet Earth. Could we live on a different planet? To find out, we want to study other planets. Scientists have been studying Mars for a long time. They have sent special machines to Mars. These machines are called rovers. Rovers are able to move around the surface of Mars. They study the planet and send the information back to Earth.

Curiosity is one rover that is on Mars right now. Scientists at NASA built Curiosity. Curiosity left Earth on November 26, 2011. It landed on Mars on August 2, 2012. Since then, it has been driving around on Mars.

Curiosity takes pictures. It also studies what Mars is made of. Curiosity has a special arm. It uses the arm to pick up dirt of Mars. Curiosity puts the rock inside the rover. Curiosity can study what the rock is made from.

Curiosity looks like this picture of itself on the surface of Mars. Scientists took this picture of itself on the surface of Mars.

Words to Know

planet
Earth
scientists
Mars
machines
rovers
surface
information
Curiosity
NASA

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Curiosity Rover 4

Level 3 ■ ■ ■

Words to Know list, Reading Selection, and Reading Comprehension questions

Learning About Mars

Fill in the circle to complete the sentence.

Learning About Mars

In 2011, a special machine left Earth. It went to the planet Mars and landed there in 2012. This machine is the Curiosity Rover. Since 2012, Curiosity has been taking pictures of Mars. It has also been studying the ground and rocks on the planet. Scientists at NASA worked hard on Curiosity. They still work with the rover today.

NASA scientists on Earth tell Curiosity what job to do. They send directions electronically through messages. Curiosity gets the messages. Then it does the job it was told to do.

Curiosity is looking for fossils and other signs of ancient life. People who are interested can see what Curiosity finds by looking on the Internet. People or NASA share what Curiosity is doing online. They post Curiosity's pictures and the information it gathers. We are learning a lot about Mars from Curiosity. Maybe astronauts will visit the rover one day.

Words to Know

Learning About Mars

Mars
Curiosity Rover
scientists
NASA
directions
electronically
messages
fossils
ancient
Internet
online
astronauts

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Curiosity Rover 6

Assemble the Unit

Reproduce and distribute one copy for each student:

- Visual Literacy page: *Curiosity Rover*, page 131
- Level 1, 2, or 3 Reading Selection and Reading Comprehension page and the corresponding Words to Know list
- Graphic Organizer of your choosing, provided on pages 180–186
- Writing Form: *Curiosity Rover*, page 132

Introduce the Topic

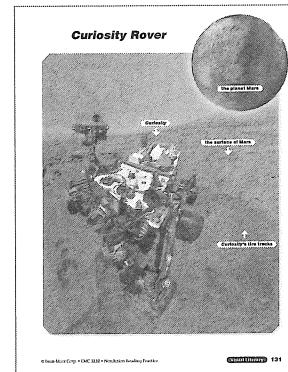
Point out the planet Mars. Explain that Mars is a planet in our solar system. Then point out the *Curiosity Rover*. Tell students that NASA scientists on Earth sent *Curiosity* to learn more about Mars.

Read and Respond

Form leveled groups and review the Words to Know lists with each group of students. Instruct each group to read their selection individually, in pairs, or as a group. Have students complete the Reading Comprehension page for their selection.

Write About the Topic

Read aloud the leveled writing prompt for each group. Tell students to use the Graphic Organizer to plan their writing. Direct students to use their Writing Form to respond to their prompt.



Visual Literacy

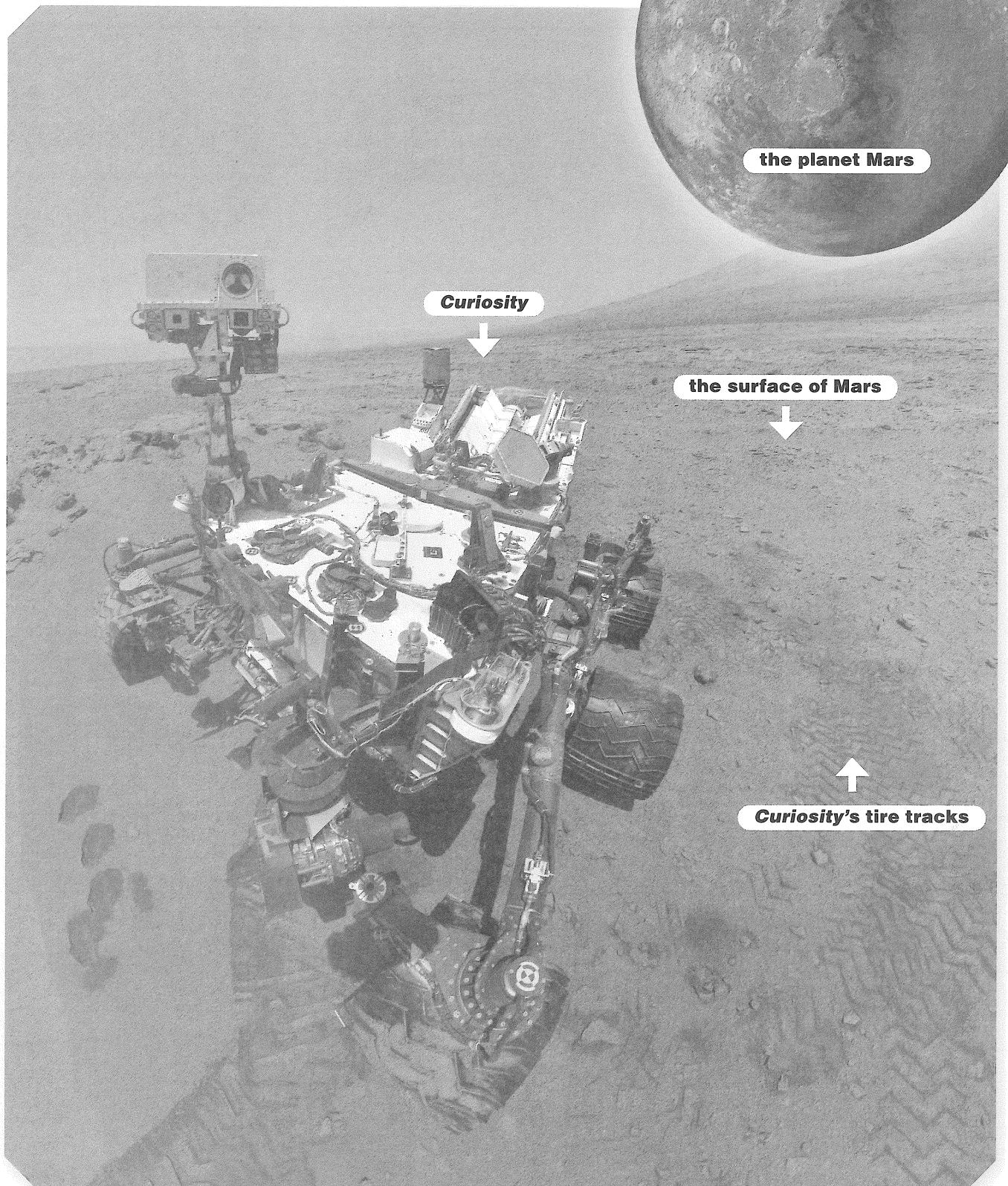
Curiosity Rover

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Writing Form

Curiosity Rover



Name _____

Curiosity Rover



Words to Know

A Special Machine

machine

Mars

rover

Curiosity

Earth

scientists

NASA

information

surface

video game

cameras

Curiosity Rover ■■

Words to Know

Working on Mars

planet

Earth

scientists

Mars

machines

rovers

surface

information

Curiosity

NASA

Curiosity Rover ■■■

Words to Know

Learning About Mars

Mars

Curiosity Rover

scientists

NASA

directions

electronically

messages

fossils

ancient

Internet

online

astronauts

Curiosity Rover ■■■■

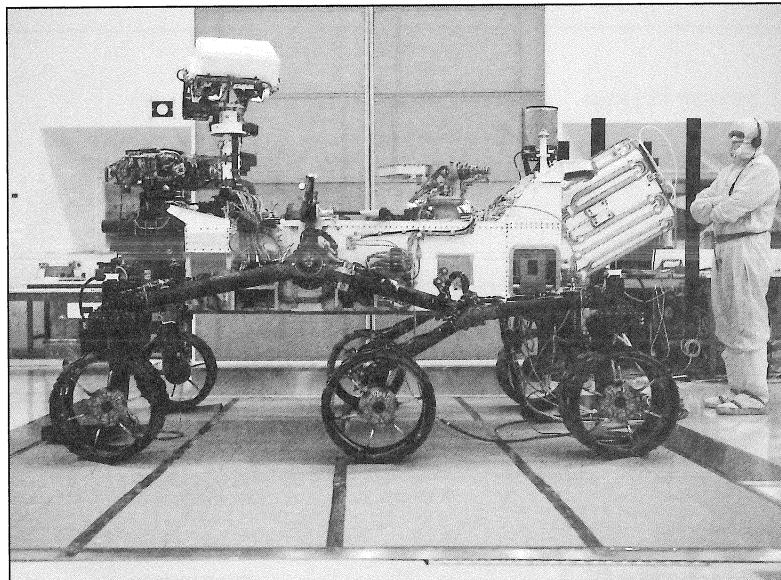


A Special Machine

There is a special machine on the planet Mars. It's a rover called *Curiosity*. Where did it come from? It was sent from Earth! Scientists at NASA worked hard to build the *Curiosity Rover*. It left Earth in 2011 and got to Mars in 2012. Ever since then, *Curiosity* has been sending information back to Earth. The rover moves along the surface of Mars. We have learned a lot about Mars from this rover.

Curiosity uses an arm to pick up rocks and soil. The arm is seven feet long. The rover can pick up a rock with its arm. The arm puts the rock inside the rover. *Curiosity* can study what the rock is made from.

Scientists on Earth tell *Curiosity* what to do. Talking to *Curiosity* is something like playing a video game. From Earth, scientists can see what *Curiosity* is doing. The rover has 17 cameras. It takes a lot of pictures. It sends a lot of information back to Earth!



***Curiosity was built here on Earth.
It went to Mars in a spaceship.***

A Special Machine

Fill in the circle to complete the sentence. Then answer questions 3 and 4.

1. Curiosity is a special machine called a _____.
Ⓐ camera
Ⓑ video game
Ⓒ rover

2. The Curiosity Rover uses an arm to _____.
Ⓐ pick up rocks
Ⓑ move along the surface of Mars
Ⓒ play a video game

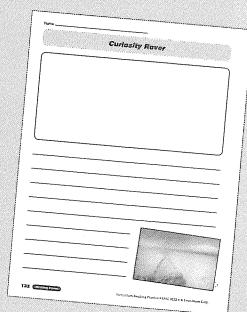
3. Why do you think scientists named the rover “Curiosity”?

4. Based on what you know about Mars, would you like to live there someday? Explain your reason.

Write About the Topic

Use the Writing Form to draw and write about what you read.

Draw the Curiosity Rover. Write to tell where the rover came from and how it works today.

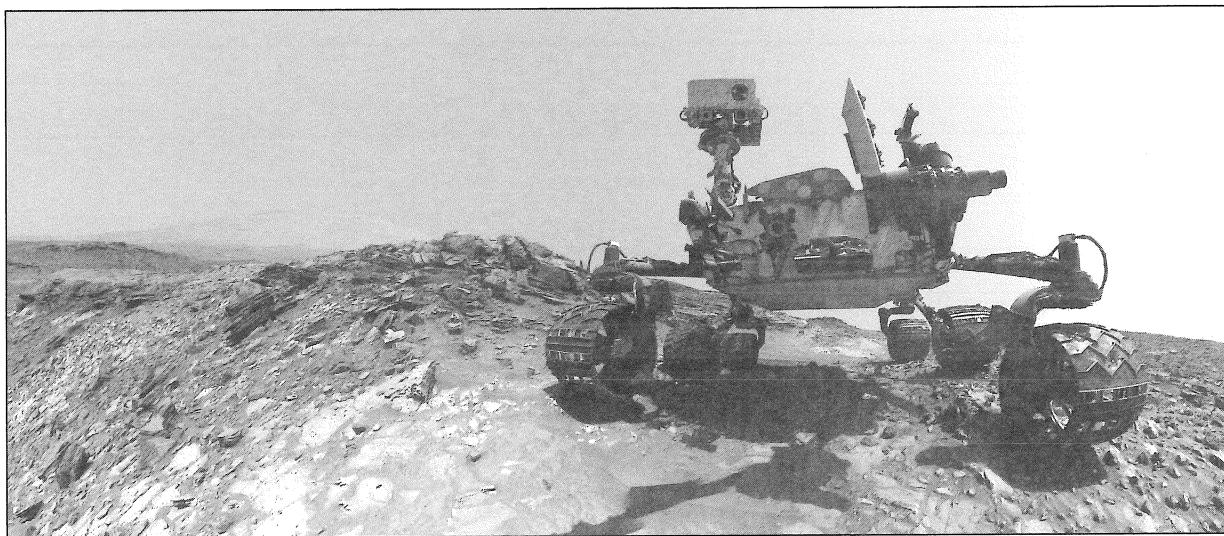


Working on Mars

We live on the planet Earth. Could we live on a different planet? To find out, we want to study other planets. Scientists have been studying Mars for a long time. They have sent special machines to Mars. These machines are called rovers. Rovers are able to move around the surface of Mars. They study the planet and send the information back to Earth.

Curiosity is one rover that is on Mars right now. Scientists at NASA built *Curiosity*. *Curiosity* left Earth on November 26, 2011. It landed on Mars on August 2, 2012. Since then, it has been driving around on Mars.

Curiosity takes pictures. It also studies what Mars is made of. *Curiosity* has a special arm. It uses the arm to pick up dirt and rocks. *Curiosity* has helped us learn many things about Mars. Scientists hope it will send us information for many more years.



***Curiosity* took this picture of itself on the surface of Mars.**

Working on Mars

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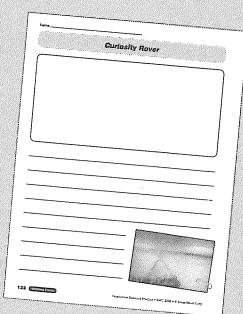
1. Scientists have been sending machines called _____ to Mars.
Ⓐ rovers
Ⓑ cars
Ⓒ drivers
2. The main purpose of a rover is to _____ about Mars.
Ⓐ be curious
Ⓑ send back information
Ⓒ write books
3. What is one reason scientists study Mars?

4. Do you think “Curiosity” is a good name for the rover?
Give your reasons.

Write About the Topic

Use the Writing Form to draw and write about what you read.

Draw the *Curiosity Rover*. Write to tell what *Curiosity* is and how it helps scientists on Earth.

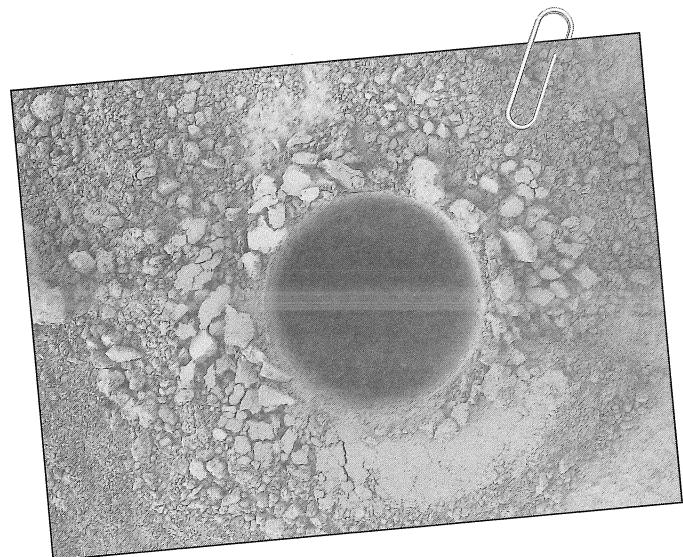


Learning About Mars

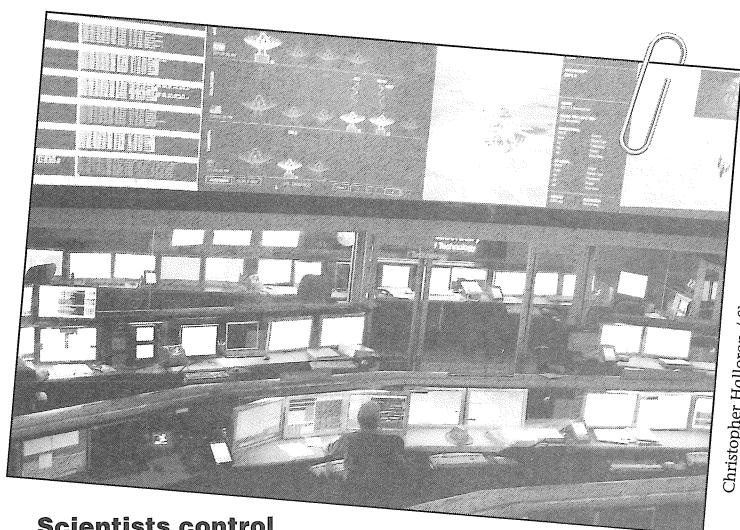
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Curiosity is looking for fossils and other signs of ancient life. People who are interested can see what *Curiosity* finds by looking on the Internet. People at NASA share what *Curiosity* is doing online. They post *Curiosity*'s pictures and the information it gathers. We are learning a lot about Mars from *Curiosity*. Maybe astronauts will visit the rover one day!



Scientists on Earth told *Curiosity* to dig this hole on Mars. *Curiosity* took the picture of the hole for the scientists.



Scientists control *Curiosity* from Earth.

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