# AV2 NONFICTION
Activities

Map Activity
Follow the instructions to complete the activity.

NAME

DATE

Using the information on page 9 of the book, fill in the blanks with the name of top robotics school in each location. Use information found in the book and research online to briefly explain why each location is important or unique.

1

3

2

N
W E
S

Scale 250 miles

0 402 kilometers
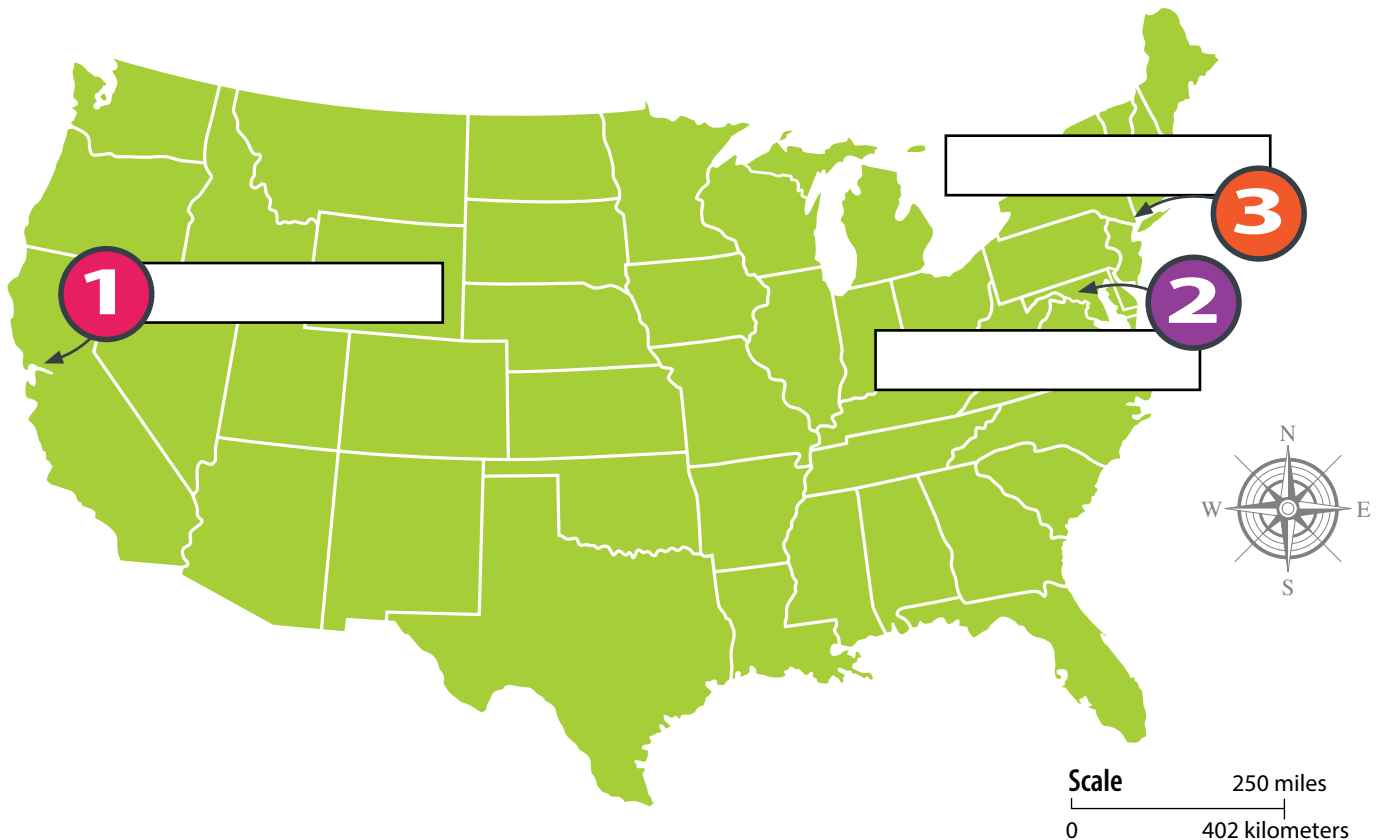
1

2

3

Thrilling Science and Technology Jobs

Space Robot Engineers

Reference: Page 9

Page
1 of 1

LIGHTBOX
LEARNING

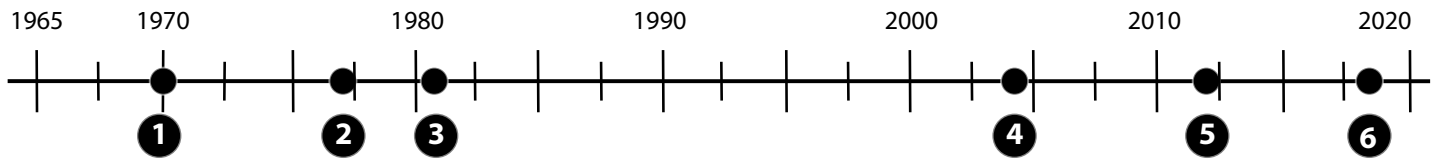©2021 Lightbox Learning. All rights reserved.
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Timeline Activity

Follow the instructions to complete the activity.

NAME

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Number the events below in the order they would appear on the timeline. Write the number in the box beside each event.

1965   1970   1980   1990   2000   2010   2020

1   **2** **3**   **4**   **5**   **6**

An unmanned spacecraft, Voyager 2, is sent to explore deep space.	☐	Soviet engineers send the Soviet Lunokhod 1 lunar rover to the Moon.	☐
Curiosity lands on Mars and begins roving.	☐	The Insight spacecraft lands successfully on Mars.	☐
Rosetta, a space probe, is sent to space to intercept a comet, then study it.	☐	The *Canadarm* makes its debut. It helped repair satellites, position astronauts, and move cargo until its final mission about 30 years later.	☐

True or False

Follow the instructions to complete the activity.

NAME

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Using the information in *Space Robot Engineers*, verify whether the following information is true or false. Check your answers in the book. List the page number where you found your information beside your answer.

Statement 1

Thousands of engineers and scientists celebrated Curiosity's safe arrival on Venus.

☐ True
☐ False

Page Number ☐

Statement 2

Robonaut technology can help people suffering from paralysis gain more mobility.

☐ True
☐ False

Page Number ☐

Statement 3

Curiosity used the largest aeroshell ever built.

☐ True
☐ False

Page Number ☐

Statement 4

Only an engineer's ears are visible through a bunny suit.

☐ True
☐ False

Page Number ☐

Statement 5

Driving the Curiosity rover is not done with a joystick or console.

☐ True
☐ False

Page Number ☐

Fill in the Blanks

Follow the instructions to complete the activity.

Use the information found in *Space Robot Engineers* to help you complete the following activity.

1. Engineers designed flexible legs for _____ with gripping feet called end effectors.

2. Robonaut can be controlled by a person wearing a virtual reality _____ and gloves.

3. In 1997, tiny _____ became the first rover to explore Mars.

4. Curiosity looks for _____ that there was once water on Mars.

5. _____ is used to test Curiosity's tires on large objects.

6. No one knows how bunny suits got their name. Possibly it comes from costumes worn at _____ .

Know Your Numbers

Follow the instructions to complete the activity.

NAME

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Using information from the book, select an answer from the right and write its letter in the box beside the correct statement.

A signal from Earth can take this many minutes to reach Curiosity.	☐	**A. 17**
The Curiosity rover has this many cameras on board.	☐	**B. 20**
This many Robonauts have been built so far.	☐	**C. 4.2**
Curiosity takes samples of rocks so scientists can study them. One sample was this many billion years old.	☐	**D. 10**
It took more than this many years to safely land Curiosity on Mars.	☐	**E. 4**

Space Robot Engineer Quiz
Test your knowledge by answering these quiz questions.

NAME

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1   When did Curiosity land on Mars?

2   What did SpaceX debut on November 15, 2018?

3   Why was Robonaut created?

4   What was the Scarecrow named after?

5   How much does the Curiosity weigh?

6   How many cameras are on board the Curiosity?

7   What was the first rover to explore Mars?

8   What is the robot that makes repairs on the outside of the ISS?

9   How do scientists safely control Curiosity?

10   What do engineers wear so they do not contaminate spacecraft?

AV2 NONFICTION Activities

Key Words Match-Up
Write the words from the list below in the box above the correct definition for each word.

NAME

DATE

KEY WORDS

atmosphere	prototype
code	rover
exoskeleton	simulation
gravity	software
microbes	vaporizes

Your Score is

_____ %

1. [   ]

turns something into vapor or gas

2. [   ]

a pretend version of something, such as a place

3. [   ]

living things that are so tiny they can only be seen with a microscope

4. [   ]

a layer of gases around a planet, moon, or star

5. [   ]

the programs that are used to operate computers

6. [   ]

the first version, or test version, of something, such as a vehicle or machine

7. [   ]

a stiff covering on the outside of the body

8. [   ]

a robot with wheels that is used to explore a moon, planet, or other space object

9. [   ]

the force that causes objects to be pulled toward other objects

10. [   ]

a language of letters, numbers, and symbols used to give instructions to a computer