

## The Explorer 1 Satellite

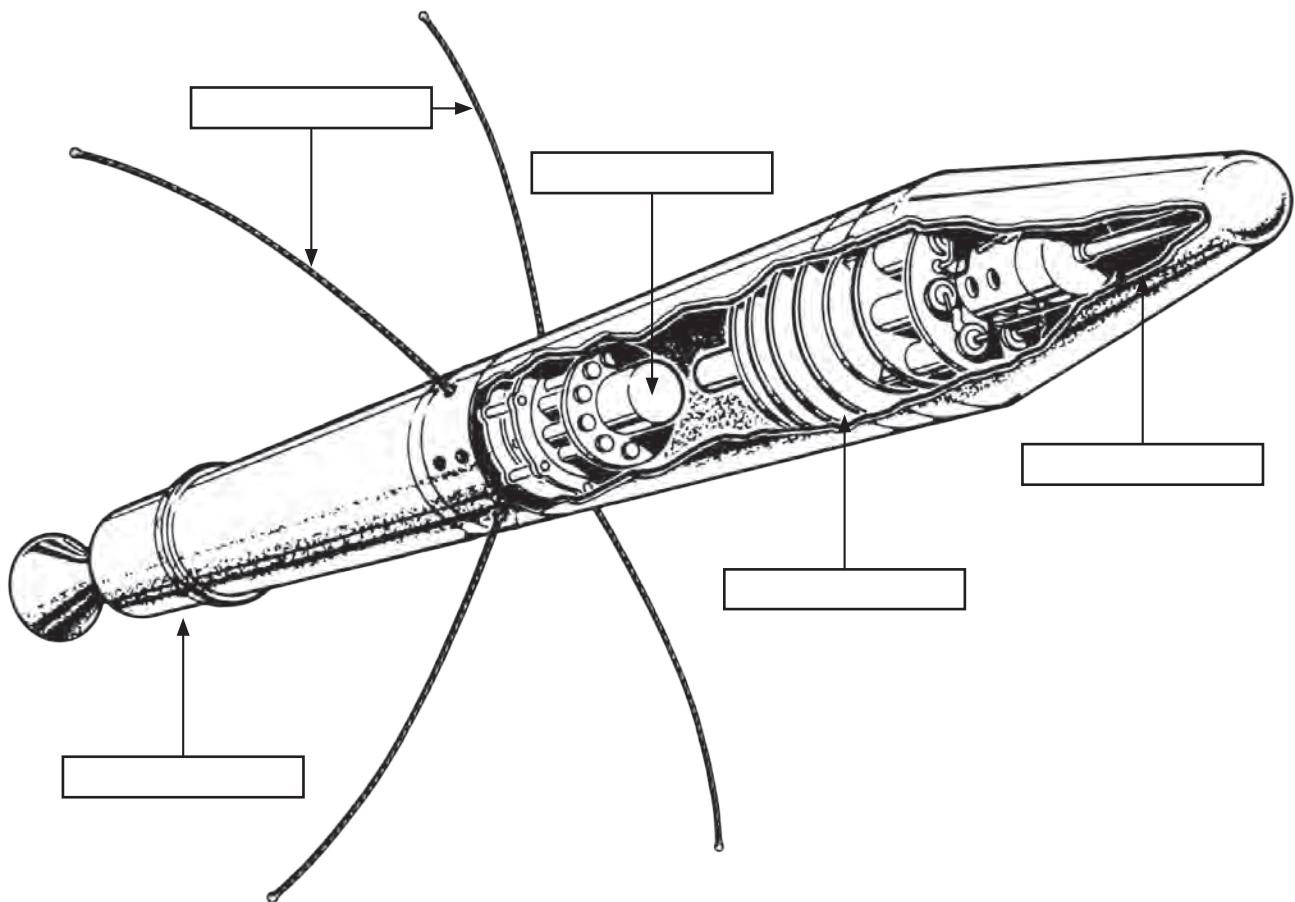
Follow the instructions to complete the activity.

NAME

DATE

Fill in the blanks in this diagram of the *Explorer 1* satellite.

- Flexible antennas
- Micrometeorite ultrasonic microphone
- Nose cone temperature probe
- Cosmic ray measuring instruments
- Micrometeorite erosion gauges



## True or False

Follow the instructions to complete the activity.

NAME

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Using the information in *NASA and the Astronauts*, 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	<i>Sputnik 1</i> had several antennas that sent radio signals down to Earth.	<input type="checkbox"/> True <input type="checkbox"/> False	Page Number	<input type="text"/>
Statement 2	Belka and Strelka shared their capsule with a dog, two cats, and 42 mice.	<input type="checkbox"/> True <input type="checkbox"/> False	Page Number	<input type="text"/>
Statement 3	<i>Friendship 7</i> was John Glenn's second mission with NASA.	<input type="checkbox"/> True <input type="checkbox"/> False	Page Number	<input type="text"/>
Statement 4	Yuri Gagarin's flight made headlines around the world.	<input type="checkbox"/> True <input type="checkbox"/> False	Page Number	<input type="text"/>
Statement 5	Edward White wore a helmet and visor to protect him from the harmful rays of the Sun.	<input type="checkbox"/> True <input type="checkbox"/> False	Page Number	<input type="text"/>



## Fill in the Blanks

Follow the instructions to complete the activity.

NAME

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Use the information found in *NASA and the Astronauts* to help you complete the following activity.

1. The Soviet Union sent  to space aboard *Sputnik 2* on November 3, 1957.
2. Ham wore a  during his flight in the Mercury capsule.
3. Simulations helped the astronauts prepare for the rapid  and weightlessness they would experience during their flights to space.
4. Gus Grissom managed to stay afloat in the cold water until a  arrived.
5. Buzz Aldrin performed Extravehicular Activity (EVA) on the  mission. EVA is any activity outside the spacecraft.
6. During his flight, Scott Carpenter wore a  designed to protect him at high altitudes.



Complete the statements by writing the correct number in the box.

*Sputnik 1* took about this many minutes to orbit Earth.

**103**

The Gemini spacecraft and Titan II rocket stood this many feet tall when combined for launch.

**15**

In this year, Edward White became the first American to perform a space walk.

**5**

Alan Shepard spent this many minutes in space. People from all around the world watched Shepard's mission on TV.

**1965**

The two Gemini spacecraft stayed close for more than this many hours.

**98**

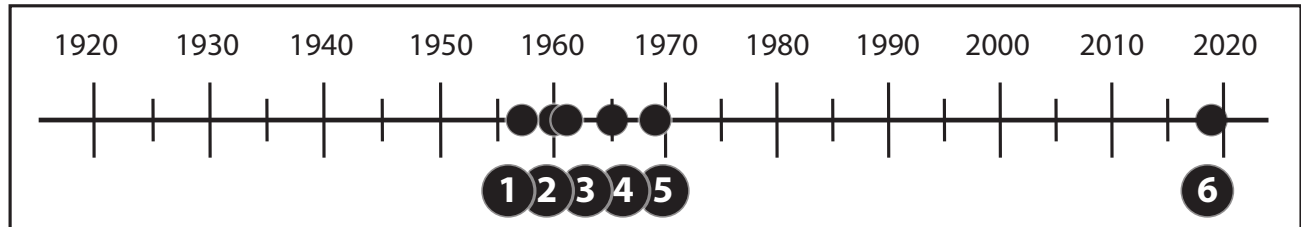
## Timeline

Follow the instructions to complete the activity.

NAME

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Number the events below in the order they should appear on the timeline. Write the number in the box beside each event. Check your answers with page 45 of the book.



Neil Armstrong and Buzz Aldrin became the first humans to walk on the Moon.

The USSR launched *Sputnik 1* and *Sputnik 2*.

The USSR sent the dogs Belka and Strelka into space.

NASA celebrated the 50th anniversary of the first lunar landing and moonwalk.

Cosmonaut Yuri Gagarin was the first person to orbit Earth. John Glenn became the first American to orbit Earth, on *Friendship 7*.

Ed White became the first American to spacewalk. It lasted for 23 minutes.



Space Exploration

NASA and the Astronauts

Reference: Pages 45

## Key Words Match-Up

Write the words from the list below in the box above the correct definition for each word.

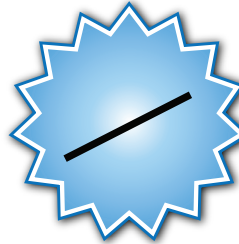
NAME

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### KEY WORDS

aborted	friction	simulations
acceleration	magnetic field	space walk
cosmonaut	orbit	suborbital
deployed	propulsion	

**Your  
Score is**



**%**

1.   
a change in motion, such as speeding up or slowing down
2.   
carried something into orbit and then released it into space
3.   
the space around an object, such as a Moon or planet, in which its magnetic force can be detected
4.   
the force that moves a vehicle forward
5.   
when an astronaut goes outside a spacecraft and moves around in space
6.   
stopped a mission or flight earlier than originally planned
7.   
an astronaut from the Soviet Union or Russia
8.   
a force generated by the rubbing of one thing against another
9.   
to repeatedly follow a curved path around another object because of gravity
10.   
things that are made to look or feel like something else, often for training
11.   
below the height or speed required to send a vehicle into orbit



## Quiz

Test your knowledge by answering these quiz questions.

NAME

DATE

**1** When did the Soviet Union launch *Sputnik 1*?

**2** Who was the first American to orbit Earth?

**3** Alan Shepard became the first American in space, but what feat did he not manage to achieve?

**4** What was the date of the famous speech by President Kennedy announcing America's plan to reach the Moon?

**5** What was the name of the rocket that launched the Gemini capsule in December 1961?

**6** What milestone did John Glenn achieve in 1998?

**7** Who was the first American to perform a spacewalk?

**8** When did Project Gemini officially end?

