

True or False

Follow the instructions to complete the activity.

NAME

DATE

Using the information in *Voyage to Pluto*, 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	<div>New Horizons was launched into space using an Atlas V rocket.</div>	<input type="checkbox"/> True <input type="checkbox"/> False	Page Number <div></div>
Statement 2	<div>New Horizons is approximately the size of a small apartment.</div>	<input type="checkbox"/> True <input type="checkbox"/> False	Page Number <div></div>
Statement 3	<div>More than 20 layers of haze in Pluto's atmosphere are visible over a mountain range.</div>	<input type="checkbox"/> True <input type="checkbox"/> False	Page Number <div></div>
Statement 4	<div>Images of Charon taken by New Horizons show that Charon once had an ocean below its surface.</div>	<input type="checkbox"/> True <input type="checkbox"/> False	Page Number <div></div>
Statement 5	<div>Scientists thought Ultima Thule was shaped like a lumpy snowman.</div>	<input type="checkbox"/> True <input type="checkbox"/> False	Page Number <div></div>



New Horizons

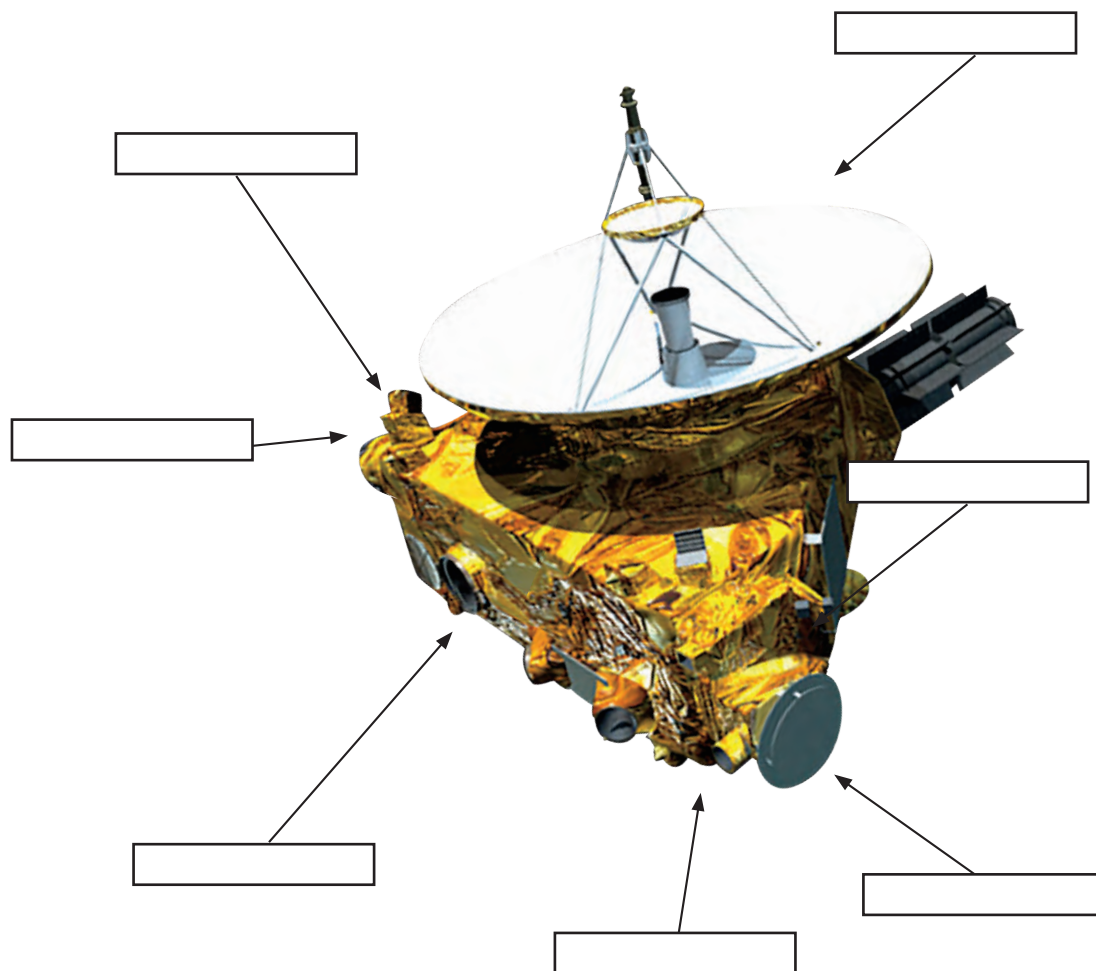
Follow the instructions to complete the activity.

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Fill in the blanks in this diagram of *New Horizons*.

- a. PEPSSI
- b. LORRI
- c. Alice
- d. SWAP
- e. SDC
- f. REX
- g. Ralph



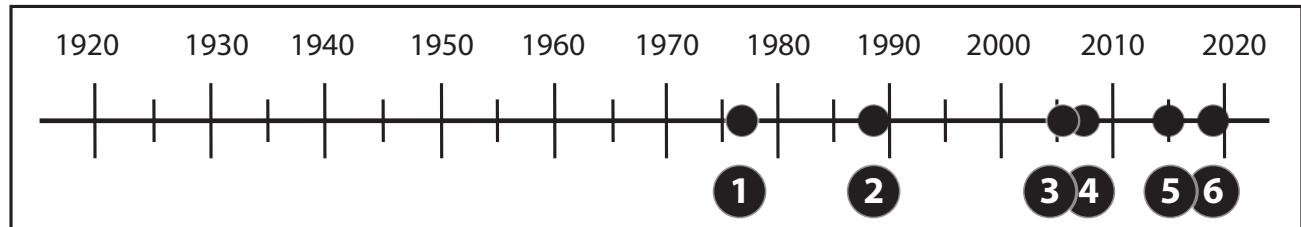
Timeline

Follow the instructions to complete the activity.

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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 23 of the book.



New Horizons was launched.

New Horizons reached Pluto and did a flyby.

Voyager 1 and *Voyager 2* were launched to visit other planets.

After successful flybys of Jupiter, Saturn, Uranus, and Neptune, astronomers began to plan a mission to Pluto.

New Horizons flew by Ultima Thule.

New Horizons did a flyby of Jupiter, then was put to sleep to conserve energy for its journey to Pluto.



Space Exploration

Voyage to Pluto

Reference: Page 23

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Fill in the Blanks

Follow the instructions to complete the activity.

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Use the information found in *Voyage to Pluto* to help you complete the following activity.

1. A tall, curved shell called a surrounded the *New Horizons* spacecraft and protected it during launch.
2. *New Horizon's* light weight allowed it to travel at a very speed.
3. Most asteroids are quite small. Some are only as big as specks.
4. Much of Pluto's surface is made up of relatively young, smooth .
5. Charon is almost the size of Pluto.
6. After passing Pluto, *New Horizons* continued to fly through the Belt.



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

New Horizons weighed about this many pounds.

8.6

The Hubble Space Telescope photographed Pluto, Charon, and two smaller moons in this year.

30 to 50

During its closest approach to Pluto, *New Horizons* was traveling this many miles per second.

2005

Cassini traveled 2.2 billion miles to reach Saturn after its launch in this year.

1997

The Kuiper Belt is a ring-shaped region of outer space that stretches this many times Earth's distance from the Sun.

1,000



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

antenna	atmosphere	orbiter
aperture	craters	probe
asteroid	infrared	ultraviolet

**Your
Score is**



%

- the opening in a camera's lens that controls how much light is let into the camera
- the layers of gases that surround a planet or moon
- light that is invisible to human eyes but can be seen by certain cameras and has a longer wavelength than that of visible light
- a device used to explore
- a device for receiving and sending radio wave
- a chunk of rock moving through space in orbit around the Sun
- round or nearly-round holes in the surface of a planet or moon, often caused by asteroid or comet crashes
- a spacecraft that orbits a planet or moon but does not land on its surface
- light that is invisible to human eyes and has a shorter wavelength than that of visible light



Quiz

Test your knowledge by answering these quiz questions.

NAME

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1 When did *New Horizons* make its closest approach to Pluto?

2 What was the name of the spacecraft that visited Uranus and Neptune between 1979 and 1989?

3 How close to Pluto did *New Horizons* get?

4 How long ago did the solar system form?

5 How old is the frozen plain located on Pluto?

6 How many moons orbit Pluto?

7 Which is the largest Pluto moon?

8 When did *New Horizons* fly by Ultima Thule?

