

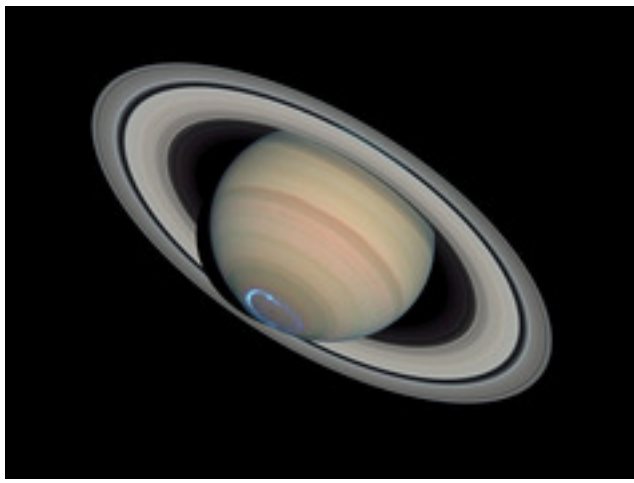
# Quiz

## Section 1



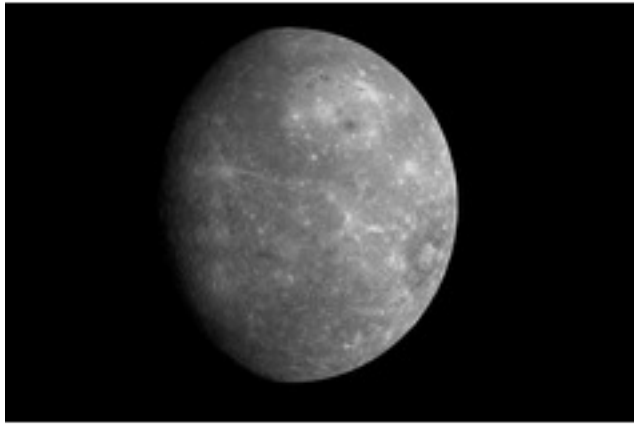
**Name the planet shown here.**

- ☒ **Earth**
- ☐ Jupiter
- ☐ Mars
- ☐ Mercury
- ☐ Neptune
- ☐ Saturn
- ☐ Uranus
- ☐ Venus



**Name the planet shown here.**

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Name the planet shown here.

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- ☐ Uranus
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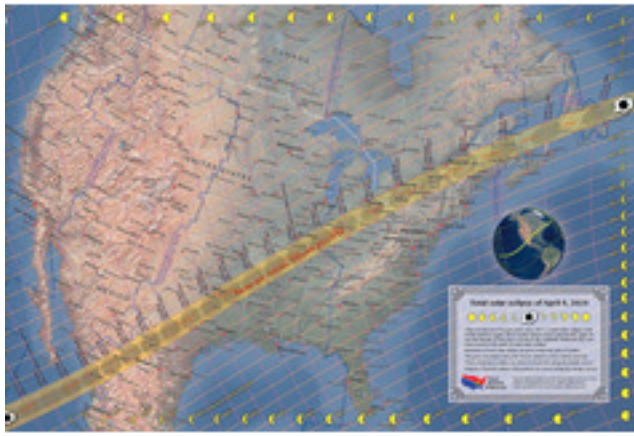
# Quiz

## Section 2

**Do solar eclipses happen during the day or at night?**

- ☒ Day
- ☐ Night

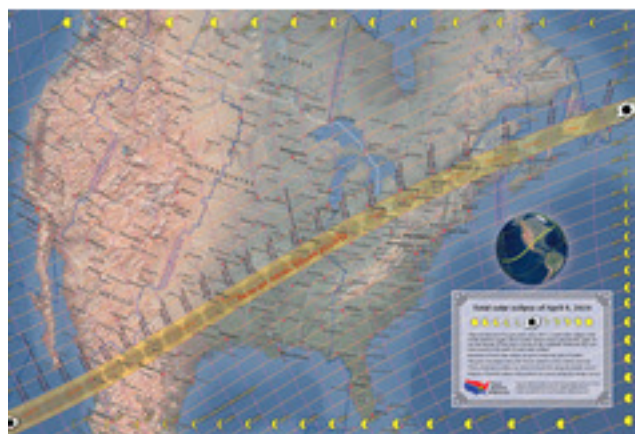




The next total solar eclipse will happen on April 8, 2024. Here is the shadow path of that eclipse. You can click it to make it bigger. Will we be able to see this eclipse in NC?

☒ Yes

☐ No



The next total solar eclipse will happen on April 8, 2024. Here is the shadow path of that eclipse. You can click it to make it bigger. Will it be a total or partial eclipse in NC?

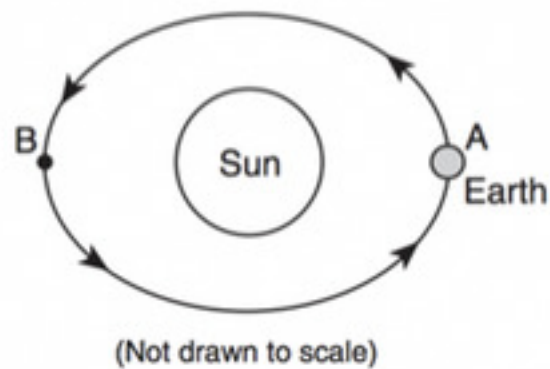
- ☐ Total
- ☒ Partial

## How long do solar eclipses last?

- ☐ A few seconds
- ☒ A few minutes
- ☐ A few hours
- ☐ 1 day

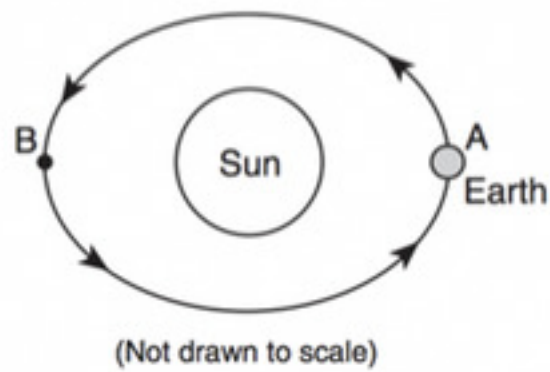
# Quiz

## Section 3



The diagram shows Earth travelling around the Sun. Letters A & B show 2 locations in Earth's orbit. 12. How long will it take for Earth to travel from point A to point B?

- ☐ 24 hours
- ☐ 1 month
- ☒ 6 months
- ☐ 12 months



**Is one trip around the sun called a rotation or revolution?**

- ☐ Rotation
- ☒ Revolution

The Earth spinning on its axis causes:

- ☒ Days
- ☐ Months
- ☐ Seasons
- ☐ Years

**Is this spinning on an axis called rotating or revolving?**

- ☒ Rotating
- ☐ Revolving

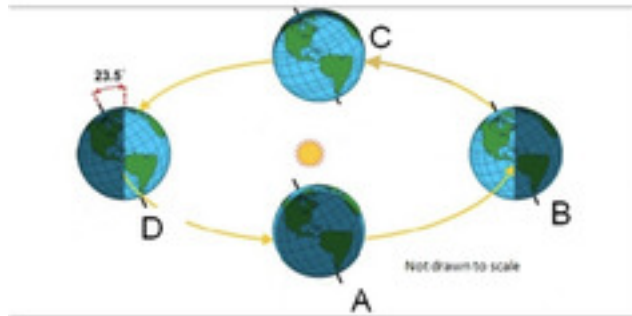


# Quiz

## Station 4

The number of daylight hours in North Carolina changes with the:

- ☐ Arrival of a severe storm
- ☐ Direction of the wind
- ☐ Moon's changing appearance
- ☐ **Season of the year**



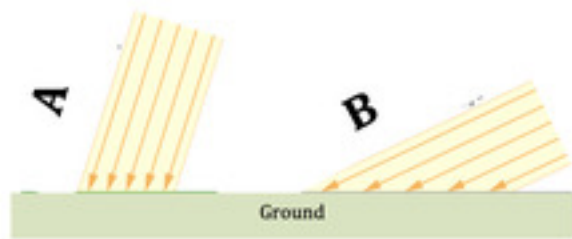
Which letter on the diagram above shows Summer in North Carolina?

☐ A

☒ B

☐ C

☐ D



**Which of these pictures shows the sunlight angle in North Carolina in the summer?**

☒ A

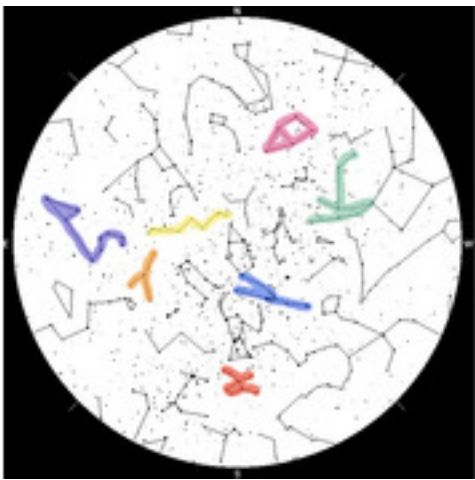
☐ B

**The Earth is closest to the Sun in the NC winter.**

- ☒ True
- ☐ False

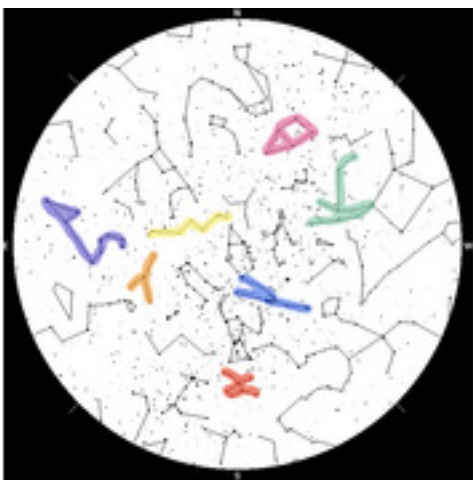
# Quiz

## Station 5



There are constellations outlined in Red, Orange, Yellow, Green, Blue, Pink, and Purple on the sky chart. You can click the picture to make it bigger. What color is Leo?

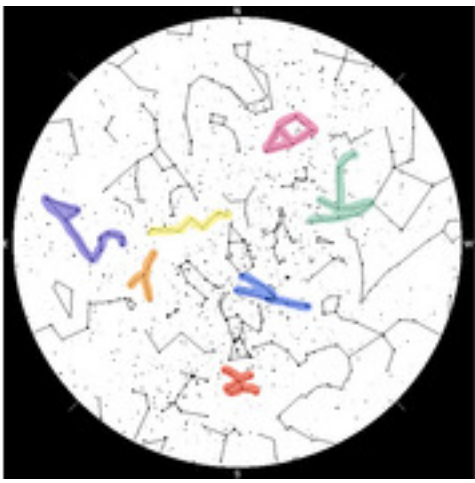
- ☐ Blue
- ☐ Green
- ☐ Orange
- ☐ Pink
- ☒ Purple
- ☐ Red
- ☐ Yellow



There are constellations outlined in Red, Orange, Yellow, Green, Blue, Pink, and Purple on the sky chart. You can click the picture to make it bigger. What color is Taurus?

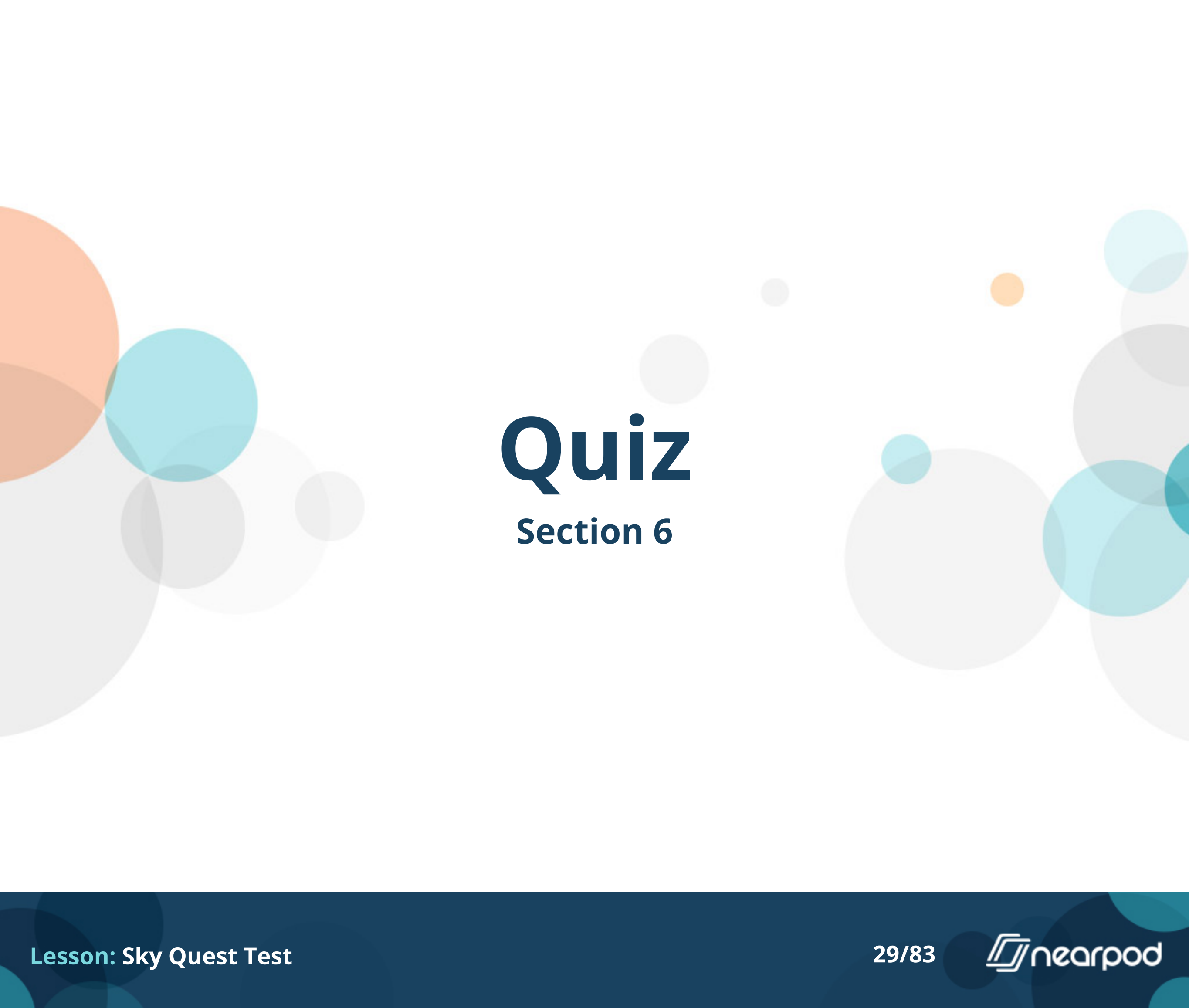
- ☒ Blue
- ☐ Green
- ☐ Orange
- ☐ Pink
- ☐ Purple
- ☐ Red
- ☐ Yellow





There are constellations outlined in Red, Orange, Yellow, Green, Blue, Pink, and Purple on the sky chart. You can click the picture to make it bigger. What color is Cassiopeia?

- ☐ Blue
- ☐ Green
- ☐ Orange
- ☐ Pink
- ☐ Purple
- ☐ Red
- ☒ Yellow

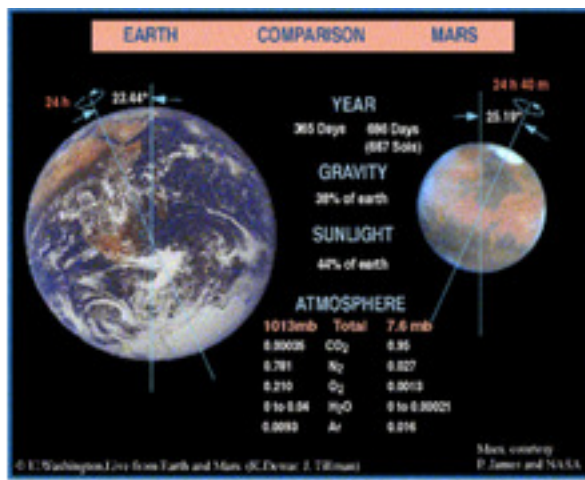


# Quiz

## Section 6

Pretend we have been able to shrink the planets to a much, much smaller size. Which planet could float in water like the one at this station?

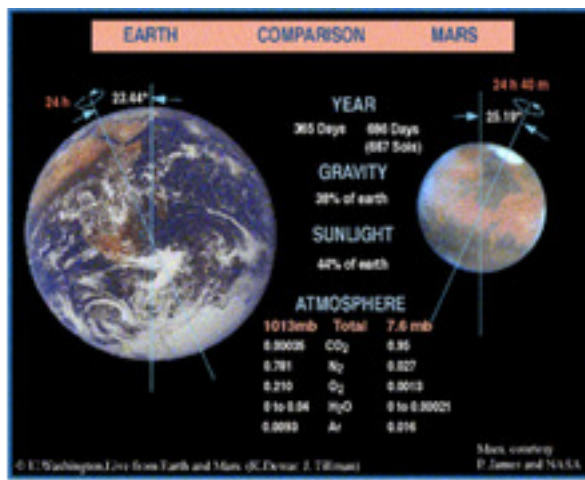
- ☐ Earth
- ☐ Jupiter
- ☐ Mercury
- ☒ Saturn



NASA is developing technology to send humans to Mars as early as 2024. Which is bigger: Earth or Mars?

☒ Earth

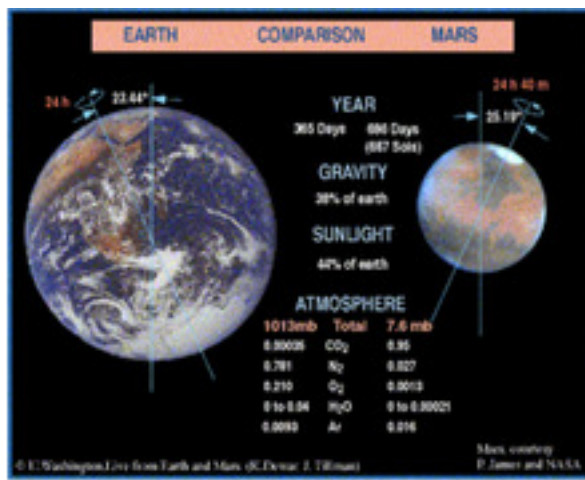
☐ Mars



**NASA is developing technology to send humans to Mars as early as 2024. When people get there, will they weigh more or less?**

☐ More

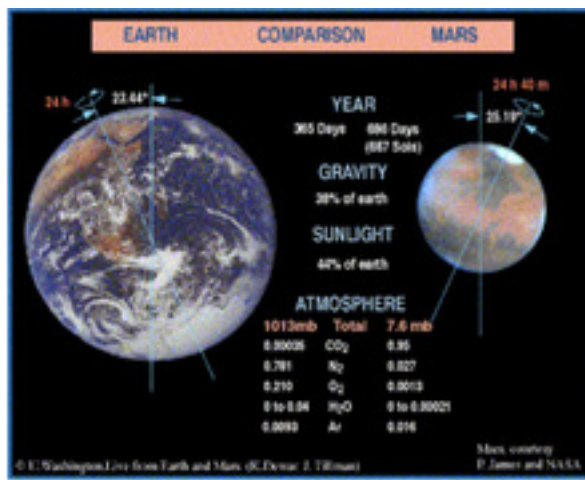
☒ Less



NASA is developing technology to send humans to Mars as early as 2024. Looking at the gases in the atmosphere on each planet (remember that humans like to breathe O<sub>2</sub>), will the Mars explorers be able to breathe the air on Mars?

☐ Yes

☒ No



NASA is developing technology to send humans to Mars as early as 2024. Someday people may be born on Mars. Will they have more or less birthdays than people born at the same time on Earth?

☐ More

☒ Less

# Quiz

## Section 7



Do each of these facts describe the Earth, Moon or Sun? Can support life.

☒ Earth

☐ Moon

☐ Sun

Do each of these facts describe the Earth, Moon or Sun?    Average size star.

☐ Earth

☐ Moon

☐ Sun

Do each of these facts describe the Earth, Moon or Sun?    Small rocky satellite.

☐ Earth

☒ Moon

☐ Sun

Do each of these facts describe the Earth, Moon or Sun? 71% covered in water

☒ Earth

☐ Moon

☐ Sun

Do each of these facts describe the Earth, Moon or Sun? Has no wind.

☐ Earth

☒ Moon

☐ Sun

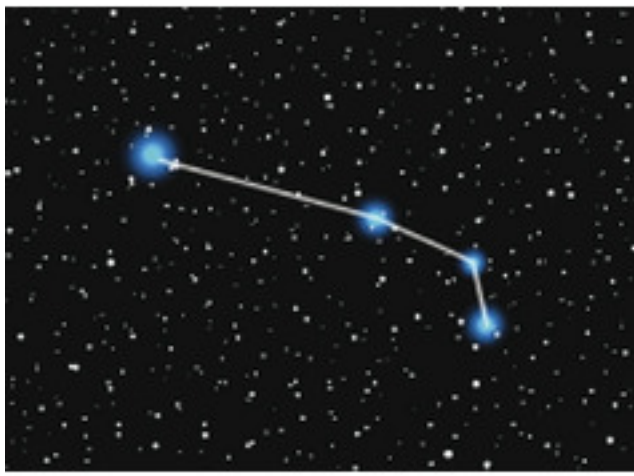
# Quiz

## Section 8



**Identify this constellation.**

- ☐ Aries
- ☒ Hercules
- ☐ Orion
- ☐ Perseus



**Identify this constellation.**

- ☒ Aries
- ☐ Hercules
- ☐ Orion
- ☐ Perseus





**Identify this constellation.**

- ☐ Aries
- ☐ Hercules
- ☐ Orion
- ☒ Perseus

# Quiz

## Section 9



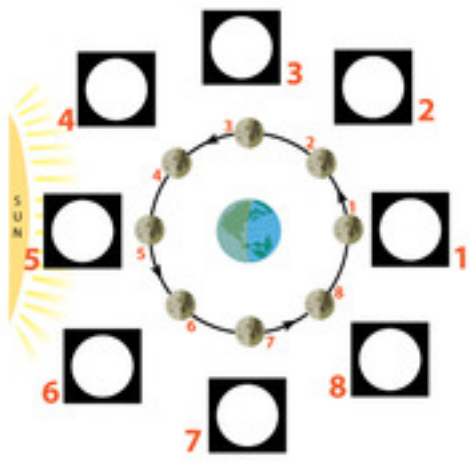
**What phase of the moon is shown here?**

- ☐ First Quarter
- ☒ Full Moon
- ☐ New Moon
- ☐ Third Quarter



**What phase of the moon is shown here?**

- ☐ First Quarter
- ☐ Full Moon
- ☐ New Moon
- ☒ Third Quarter



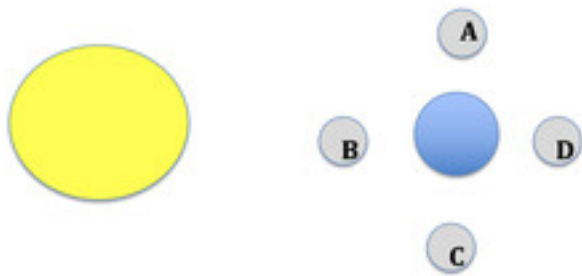
You are on Earth and look up at the sky at #6. What Moon do you see?

- ☐ New Moon
- ☐ Waning Crescent
- ☒ Waxing Crescent
- ☐ Waxing Gibbous



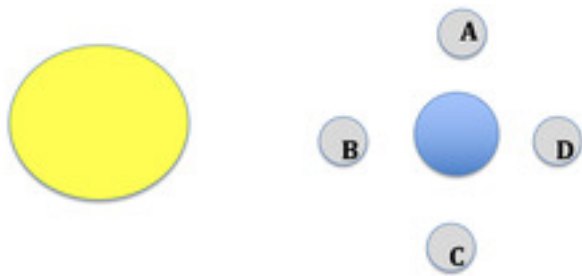
# Quiz

## Section 10



This shows the relative positions of the Earth, Moon & Sun (not to scale). What moon positions cause neap tides?

- ☐ A & B
- ☒ A & C
- ☐ B & D
- ☐ B & C



This shows the relative positions of the Earth, Moon & Sun (not to scale). Which moon position causes higher high tides and lower low tides?

- ☐ A & B
- ☐ A & C
- ☒ B & D
- ☐ B & C



## What force causes tides?

- ☐ Centrifugal force
- ☒ Gravity
- ☐ Inertia
- ☐ Torque

# Quiz

## Section 11

You are on a solar system tour! Identify which planet is being described in each question. You set course for the smallest planet. It has a huge range in surface temperatures: from  $-280^{\circ}\text{F}$  to  $800^{\circ}\text{F}$ ! Where are you?

- ☐ Earth
- ☐ Jupiter
- ☐ Mars
- ☒ Mercury
- ☐ Neptune
- ☐ Saturn
- ☐ Uranus
- ☐ Venus

You are on a solar system tour! Identify which planet is being described in each question. You turn on the autopilot and decide to take a nap. When you wake up, you aren't quite sure where you are. The Sun is a small spec in the distance. Whoa – you see a huge storm on the surface – it looks bigger than the whole Earth! Where are you?

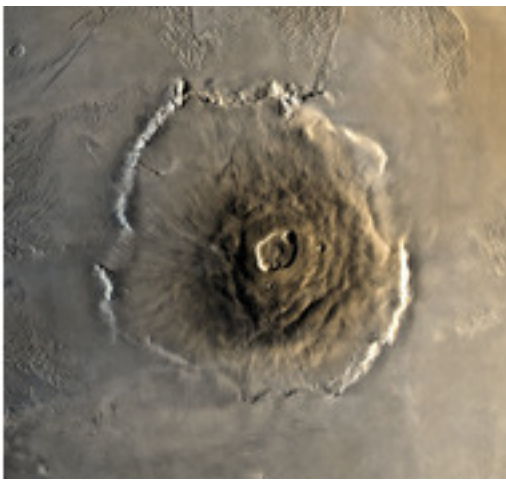
- ☐ Earth
- ☒ Jupiter
- ☐ Mars
- ☐ Mercury
- ☐ Neptune
- ☐ Saturn
- ☐ Uranus
- ☐ Venus

You are on a solar system tour! Identify which planet is being described in each question. You hit the rocket boosters and get away from that storm fast! Now where has autopilot taken you? You descend through a thick layer of clouds and your sensors tell you that the atmosphere here is made almost entirely of carbon dioxide and even though the winds are blowing over 200 mph, it is very hot: 870<sup>o</sup>F. Where are you?

- ☐ Earth
- ☐ Jupiter
- ☐ Mars
- ☐ Mercury
- ☐ Neptune
- ☐ Saturn
- ☐ Uranus
- ☒ Venus

You are on a solar system tour! Identify which planet is being described in each question. The temperature is not good for your navigation system and you aren't sure where you are headed next. After shooting through the clouds, you see Earth whiz past the window and you keep going. You slow down as you approach a bright blue planet. It has at least 12 moons orbiting its icy surface. You calculate that it completes 1 rotation a bit faster than Earth. Where are you?

- ☐ Earth
- ☐ Jupiter
- ☐ Mars
- ☐ Mercury
- ☐ Neptune
- ☐ Saturn
- ☒ **Uranus**
- ☐ Venus



You are on a solar system tour! Identify which planet is being described in each question. You reboot your computer and set your course for the last stop on the tour. You see this out your window on approach. You land your spacecraft next to the largest volcano in the solar system. Where are you?

- ☐ Earth
- ☐ Jupiter
- ☒ Mars
- ☐ Mercury
- ☐ Neptune
- ☐ Saturn
- ☐ Uranus
- ☐ Venus

# Quiz

## Section 12





**Identify the asterisms in these pictures.**

- ☒ **Big Dipper**
- ☐ Little Dipper
- ☐ Great Square of Pegasus
- ☐ Orion's Belt
- ☐ Summer Triangle
- ☐ Winter Triangle



**Identify the asterisms in these pictures.**

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- ☐ Orion's Belt
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- ☐ Winter Triangle

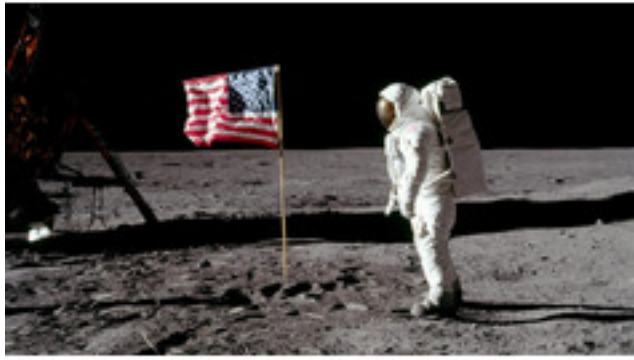


**Identify the asterisms in these pictures.**

- ☐ Big Dipper
- ☒ Little Dipper
- ☐ Great Square of Pegasus
- ☐ Orion's Belt
- ☐ Summer Triangle
- ☐ Winter Triangle

# Quiz

## Section 13



**This picture shows astronaut Neil Armstrong standing on the surface of the moon. What was the name and number of this space mission to the moon?**

- ☐ Apollo 1
- ☐ Apollo 7
- ☒ Apollo 11
- ☐ Apollo 13



When the lunar module landed on the moon, the astronauts radioed the control room back in Houston with the nickname of their space-ship. “The \_\_\_\_\_ has landed.” What was the nickname of the lunar module?

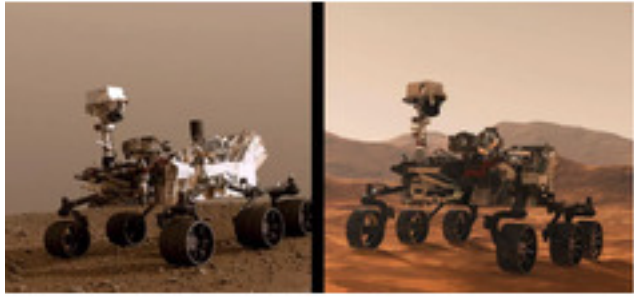
- ☐ Destiny
- ☒ Eagle
- ☐ Mothership
- ☐ Tugboat





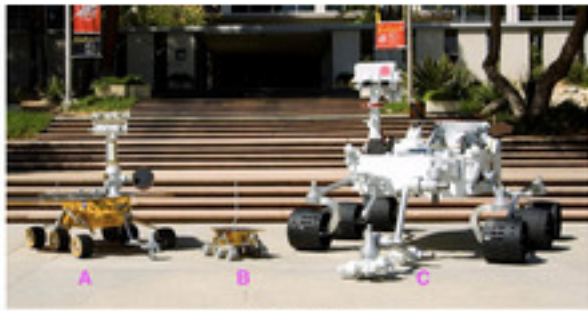
This high-resolution still image is part of a video taken by several cameras as NASA's Perseverance rover touched down on Feb. 18, 2021. Where did it land?

- ☒ Mars
- ☐ Mercury
- ☐ The Moon
- ☐ Venus



Perseverance is on the right in the picture. What older rover is on the left?

- ☒ Curiosity
- ☐ Opportunity
- ☐ Spirit
- ☐ Sojourner



Which of these has a twin? They were named Spirit & Opportunity

Image credit: NASA/JPL-Caltech  
Full-scale models of three generations of NASA rovers. This image was taken in May 2008 at NASA's Jet Propulsion Laboratory, Pasadena, Calif., which has built the real rovers and managed the rover missions for NASA.

☒ A

☐ B

☐ C

# Quiz

## Station 14

Match the accomplishment with the mission name. First manned spaceflight in history.

- ☐ Apollo 11
- ☐ Freedom 7
- ☐ Friendship 7
- ☐ Space Shuttle program
- ☐ Vostok 1

Match the accomplishment with the mission name. John Glenn, Jr., became the first American to orbit Earth.

- ☐ Apollo 11
- ☐ Freedom 7
- ☐ Friendship 7
- ☐ Space Shuttle program
- ☐ Vostok 1

Match the accomplishment with the mission name. First program to be able to fly & land ship back on Earth.

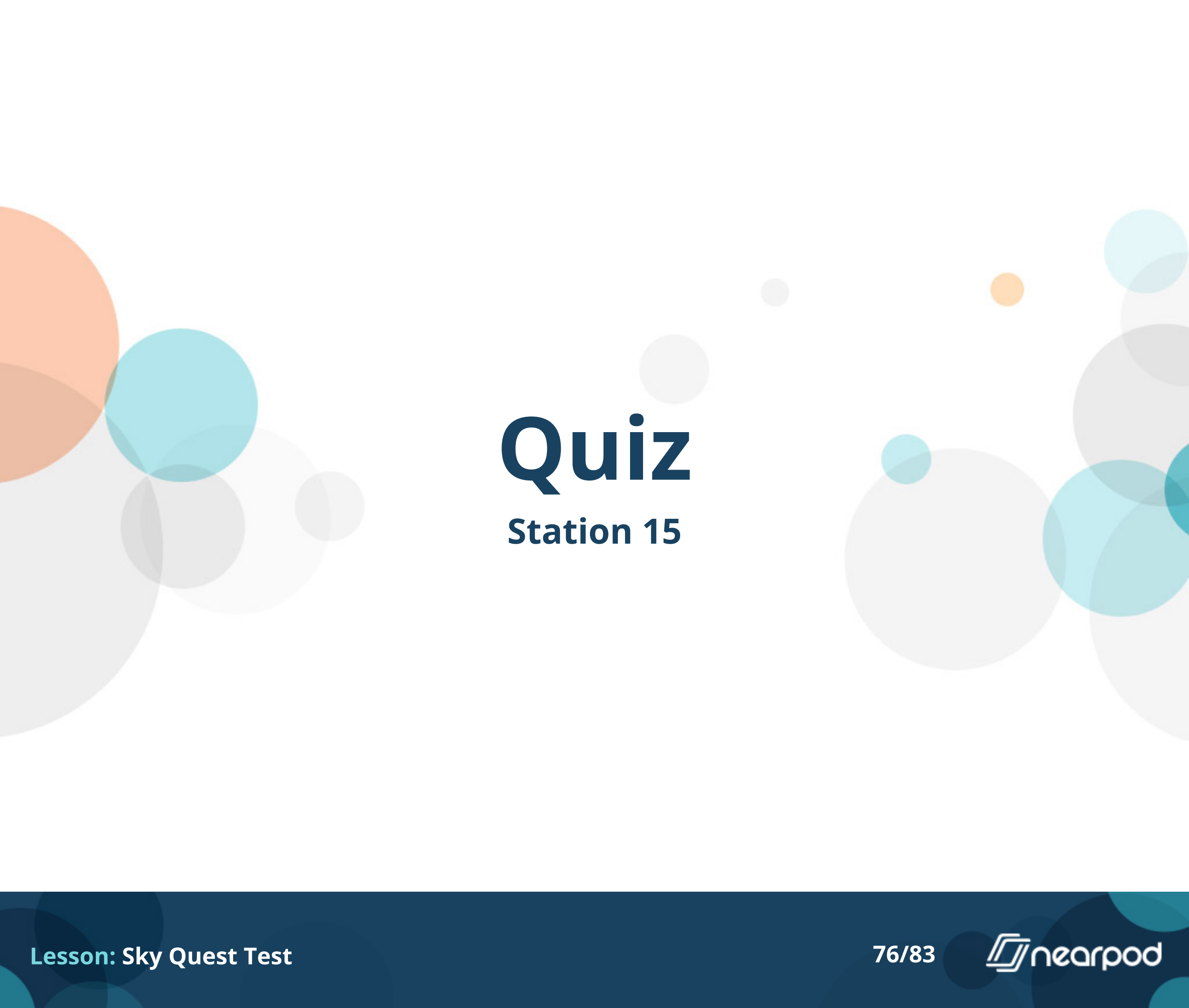
- ☐ Apollo 11
- ☐ Freedom 7
- ☐ Friendship 7
- ☐ Space Shuttle program
- ☐ Vostok 1

Match the accomplishment with the mission name.  
in space.

Alan Shepard is the first American

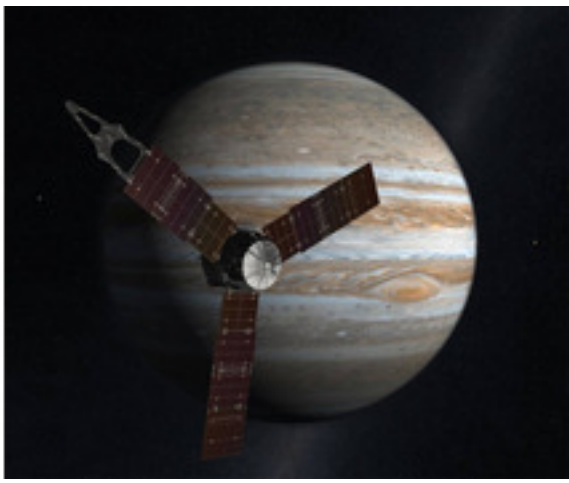
- ☐ Apollo 11
- ☒ Freedom 7
- ☐ Friendship 7
- ☐ Space Shuttle program
- ☐ Vostok 1





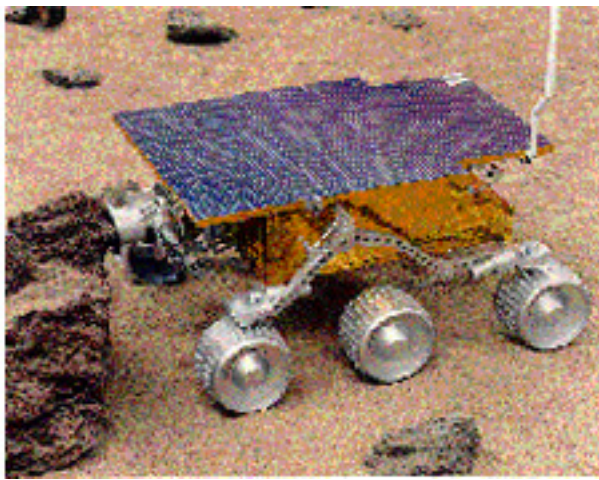
# Quiz

## Station 15



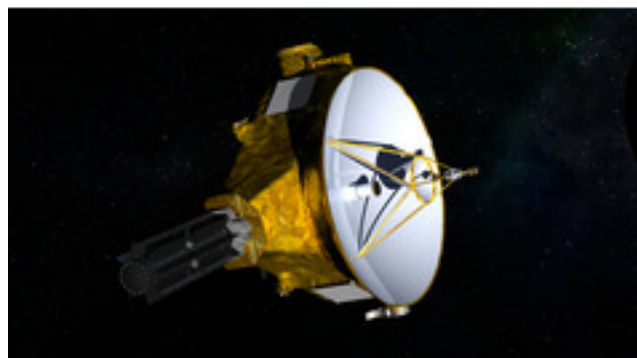
**Match the mission with the accomplishment. NASA space probe orbiting the planet Jupiter.**

- ☐ Sojourner
- ☒ Juno
- ☐ New Horizons
- ☐ Voyager 1 & 2



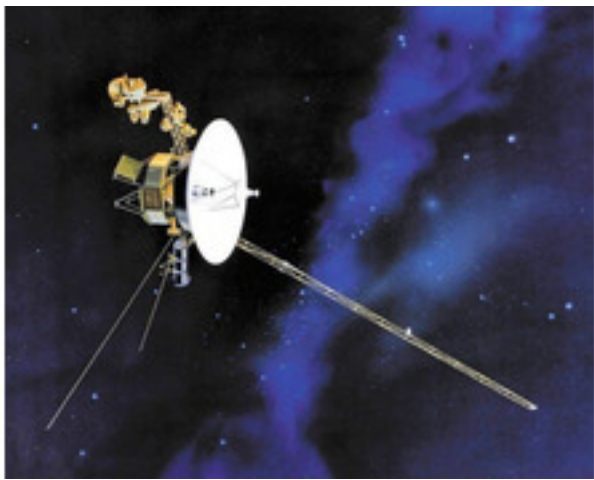
**Match the mission with the accomplishment. The rover was the first wheeled vehicle to rove another planet.**

- ☐ Sojourner
- ☐ Juno
- ☐ New Horizons
- ☐ Voyager 1 & 2



**Match the mission with the accomplishment. The First Mission to the Pluto System and the Kuiper Belt.**

- ☐ Sojourner
- ☐ Juno
- ☐ **New Horizons**
- ☐ Voyager 1 & 2



**Match the mission with the accomplishment. Originally meant for the exploration of Jupiter and Saturn, continues out into outer space now.**

- ☐ Sojourner
- ☐ Juno
- ☐ New Horizons
- ☐ Voyager 1 & 2