

Q1

Station 1

What is the center of our solar system?

- A) a star composed of hydrogen and helium
- B) a black hole that was once a star
- C) Earth
- D) a star composed of oxygen and nitrogen

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Q2

Station 1

What is the Sun composed of?

- E) lava
- F) rock
- G) flowing water
- H) burning gas

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Q3

Station 1

A large celestial body orbiting the Sun that does not make its own light-

- J) the moon
- K) planet
- L) a star
- M) asteroid

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Q4

Station 1

When astronauts traveled to the moon during the Apollo missions, they had to wear space suits having air tanks. Astronauts on the moon must breathe from air tanks because -

- N) the moon has little to no atmosphere
- O) the moon's atmosphere contains 99% carbon dioxide
- P) the moon's oxygen is poisonous
- Q) Earth, Sun, Moon

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Q1

Station 2

Which of the following has no real surface?

- A) Earth
- B) Moon
- C) Sun
- D) Mars

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Q2

Station 2

About 400 years ago, a scientist named Galileo became the first person to record what the moon looked like through a telescope. He was able to tell that the moon had-

- A) active volcanos
- B) abundant plant-life
- C) many craters
- D) polar ice caps

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Q3

Station 2

If the Earth suddenly moved further away from the Sun, which of these would most likely happen?

- A) There would be more seasons.
- B) There would be no moon.
- C) There would be warmer weather.
- D) There would be colder weather.

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Q4

Station 2

How is the Earth unique among the other planets?

- A) It has a breathable atmosphere.
- B) It has a rocky surface.
- C) It rotates on an axis.
- D) It is warmed by the Sun.

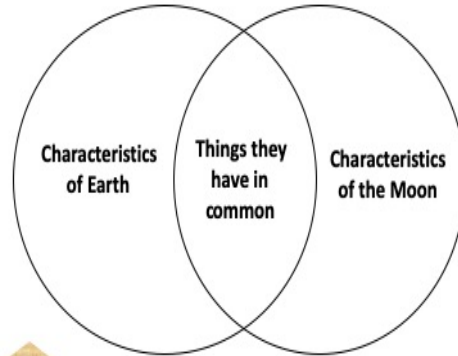
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Q1

Station 3

Which of the following would best fit in the middle of the Venn diagram?

- A) active volcanoes
- B) rocky surface
- C) liquid water
- D) oxygen in atmosphere



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Q2

Station 3

Which of these best describes the Moon?

- A) made of helium and hydrogen
- B) older than Earth
- C) smaller in size than Earth
- D) having the same atmosphere as Earth

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Q3

Station 3

Which of the following objects in the solar system has been visited by humans?

- A) Mercury
- B) Venus
- C) Mars
- D) the Moon

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Q4

Station 3

The moon, the sun, and Earth have different physical characteristics. Which of these best describes a physical characteristic of the sun?

- A) It is mostly made of the gases hydrogen and helium.
- B) It is tilted at 23.5°.
- C) It has less gravity than Earth.
- D) It orbits every 365 days.

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Q1

Station 4

Gravity is responsible for-

- A) rotation of Earth on its axis
- B) orbits of the planets around the Sun
- C) tilt of the Earth on its axis
- D) moon phases

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Q2

Station 4

Which of the following can be found on both Earth and the Moon?

- E) active volcanos
- F) rivers
- G) clouds
- H) mountains

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Q3

Station 4

What characteristic to the Earth, Sun, and Moon share?

- A) temperature
- B) what they are made of
- C) shape
- D) size

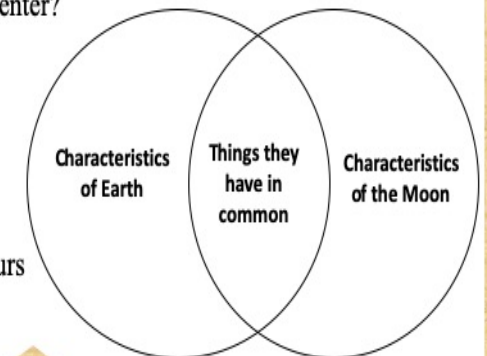
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Q4

Station 4

Ryan made a Venn diagram comparing the characteristics of the Moon and Earth. What could go in the center?

- E) orbits another object
- F) has water in 3 states
- G) has visible craters
- H) rotates on an axis every 24 hours



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Q1

Station 5

Which of the following lists the Earth, Sun, and Moon in order of size, from smallest to largest?

- A) Sun, Earth, Moon
- B) Moon, Earth, Sun
- C) Earth, Moon, Sun
- D) Moon, Sun, Earth

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Q2

Station 5

When astronauts landed on the Moon, they weighed about $1/6^{\text{th}}$ what they had on Earth. Astronauts weigh more on Earth than they do on the moon because—

- E) the moon has less gravity than Earth
- F) they have less mass on the moon
- G) the moon has less friction than Earth
- H) their density increases on the moon

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Q3

Station 5

The Moon's surface has many more craters than the Earth's. What best explains the difference in the number of craters on the surface of the Moon and the Earth?

- J) The Moon almost never gets impacted by meteorites.
- K) The Moon rotates more quickly attracting meteorites.
- L) The Moon has more gravity; thus it attracts more meteorites.
- M) The Earth's atmosphere protects its from smaller meteors that burn up in the atmosphere.

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Q4

Station 5

Although the Moon has less gravity than Earth, it does have an enormous effect on Earth. The moon's gravitational pull causes -

- P) solar eclipses
- Q) the ocean tides
- R) the tilt of the Earth on its axis
- S) the Earth's seasons

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