

## Outer Space Trivia: Questions, Answers, and Facts Printable Trivia Pack

Outer Space trivia brings together facts about the solar system, distant galaxies, famous missions, and the science that helps explain the cosmos. From family-friendly basics to harder stargazer challenges, it offers an accessible way to test what you know about one of humanity's oldest subjects of curiosity.

### HARD OUTER SPACE TRIVIA

1. Who showed in 1925 that stars are composed mainly of hydrogen and helium?

Answer: Cecilia Payne

2. Which astronomer discovered the period-luminosity relation for Cepheid variable stars?

Answer: Henrietta Swan Leavitt

3. Who provided evidence that the Andromeda Nebula is a separate galaxy?

Answer: Edwin Hubble

4. Whose galaxy rotation research gave key evidence for dark matter?

Answer: Vera Rubin

5. Who co-discovered the first radio pulsars in 1967?

Answer: Jocelyn Bell Burnell

6. Which scientist co-wrote the 1972 Pioneer plaque message sent into space?

Answer: Carl Sagan

7. Who predicted the black hole emission now called Hawking radiation?

Answer: Stephen Hawking

8. During Apollo 13's mission crisis, who served as NASA flight director?

Answer: Gene Kranz

9. In what U.S. territory was the Arecibo Observatory located?

Answer: Puerto Rico

10. In what year did the Arecibo Observatory collapse?

Answer: 2020

11. What was the first space station launched into orbit in 1971?

Answer: Salyut 1

12. Which spacecraft was the first reusable crewed orbital spacecraft to fly?

Answer: Space Shuttle Columbia

13. Who became the first American woman to perform a spacewalk in 1984?

Answer: Kathryn D. Sullivan

14. What is the name of China's modular space station?

Answer: Tiangong

#### FUNNY OUTER SPACE TRIVIA

1. What nickname does October's full Moon wear?

Answer: Hunter's Moon

2. The Moon's dark plains have a watery-sounding nickname. What is it?

Answer: Maria

3. Which constellation is commonly called the Great Bear?

Answer: Ursa Major

4. The Big Dipper is not a full constellation. It belongs to which one?

Answer: Ursa Major

5. Which nebula is the remnant of a supernova seen in 1054?

Answer: Crab Nebula

6. Which planetary nebula in Draco sounds ready to stare back at you?

Answer: Cat's Eye Nebula

7. Which famous nebula shaped like an animal's head is found in Orion?

Answer: Horsehead Nebula

8. Which galaxy is also known as Messier 104 and sounds ready for a cosmic parade?

Answer: Sombrero Galaxy

9. Messier 51 goes by what swirling nickname?

Answer: Whirlpool Galaxy

10. Which spin-happy galaxy is another name for Messier 101?

Answer: Pinwheel Galaxy

11. What nebula is cataloged as Messier 27?

Answer: Dumbbell Nebula

12. NGC 2392 is better known by what chilly nickname?

Answer: Eskimo Nebula

13. Which fluttery nebula is cataloged as NGC 6302?

Answer: Butterfly Nebula

#### FUN OUTER SPACE TRIVIA

1. Spot the windy giant: what is Jupiter's huge storm called?

Answer: Great Red Spot

2. Which moon of Saturn has lakes and seas made of liquid methane and ethane?

Answer: Titan

3. What icy moon sprays water-rich plumes from its south polar region?

Answer: Enceladus

4. What kind of star can spin hundreds of times each second?

Answer: A neutron star

5. A teaspoon of what would weigh billions of tons on Earth?

Answer: Neutron-star matter

6. What could linger on the Moon for millions of years because there is so little weather there?

Answer: Apollo footprints

7. How long is one year on Mercury in Earth days?

Answer: 88 Earth days

8. About how long is a Martian day?

Answer: About 24 hours and 39 minutes

9. By about how much does the Moon drift away from Earth each year?

Answer: About 3.8 centimeters per year

10. Why do comet tails stream away from the Sun rather than behind the comet's path?

Answer: Because of solar wind and sunlight pressure

11. Which dwarf planet is the largest known one in the asteroid belt?

Answer: Ceres

12. Mars keeps two tiny companions. What are their names?

Answer: Phobos and Deimos

13. Which asteroid is counted among the largest objects in the asteroid belt?

Answer: Vesta

#### OUTER SPACE FAMILY TRIVIA

1. Who became the first human in space in 1961?

Answer: Yuri Gagarin

2. Which trailblazer became the first woman in space in 1963?

Answer: Valentina Tereshkova

3. Which astronaut was the first American to orbit Earth?

Answer: John Glenn

4. In 1983, who became the first American woman in space?

Answer: Sally Ride

5. Which mission landed on the Moon in 1969?

Answer: Apollo 11

6. Neil Armstrong's first lunar step happened in what location?

Answer: Mare Tranquillitatis

7. Which famous space telescope launched in 1990?

Answer: Hubble Space Telescope

8. What orbital outpost began assembly in 1998?

Answer: International Space Station

9. Which reusable spacecraft program first flew in 1981?

Answer: Space Shuttle

10. Which probe with a famous golden-era journey launched in 1977: Voyager 1 or Curiosity?

Answer: Voyager 1

11. Name the companion Voyager mission that also launched in 1977.?

Answer: Voyager 2

12. Curiosity touched down on Mars in 2012 inside which crater?

Answer: Gale Crater

#### EASY OUTER SPACE TRIVIA

1. Which planet sits closest to the Sun?

Answer: Mercury

2. What is the third planet from the Sun?

Answer: Earth

3. Which world is widely nicknamed the Red Planet?

Answer: Mars

4. Name the largest planet in the Solar System.?

Answer: Jupiter

5. Which planet is best known for its prominent rings?

Answer: Saturn

6. William Herschel discovered which planet in 1781?

Answer: Uranus

7. Which planet is eighth from the Sun?

Answer: Neptune

8. What natural satellite goes around Earth?

Answer: The Moon

9. True or false: the Sun is a star.?

Answer: True

10. What star is commonly called the North Star?

Answer: Polaris

11. A light-year measures what: time or distance?

Answer: Distance

12. Which galaxy contains our Solar System?

Answer: The Milky Way

13. How many planets are in the Solar System?

Answer: 8

Source: <https://triviagong.com/themes/outer-space>