

# Exploring the Giant Planet Jupiter

Astronomy · Answer Key · 15 Questions

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**1. What is the approximate rotation period of Jupiter?**

- A) 9.9 hours**
- B) 24 hours
- C) 12 days
- D) 4.6 billion years

**2. How many Earths could fit inside Jupiter if it were a hollow shell?**

- A) 10
- B) 100
- C) 500
- D) 1000**

**3. What are the primary gases that make up Jupiter's composition?**

- A) Oxygen and Nitrogen
- B) Hydrogen and Helium**
- C) Carbon Dioxide and Methane
- D) Argon and Neon

**4. Which moon of Jupiter is considered a likely place to find life due to its subsurface ocean?**

- A) Io
- B) Callisto
- C) Europa**
- D) Ganymede

**5. What is the name of the giant storm that has raged on Jupiter for hundreds of years?**

- A) The Little Red Spot
- B) The Great Dark Spot
- C) The Great Red Spot**
- D) The Cyclonic Belt

**6. What is the main reason Jupiter does not have extreme seasons?**

- A) It is too far from the Sun
- B) Its equator is only tilted by 3 degrees**
- C) It has no surface
- D) Its atmosphere is too thick

**7. How many moons of Jupiter are officially recognized by the International Astronomical Union?**

- A) 4
- B) 12
- C) 50
- D) 95**

**8. Which spacecraft has provided significant data regarding Jupiter's gravity, magnetic field, and interior?**

- A) Voyager 1
- B) Hubble
- C) Juno**
- D) Europa Clipper

**9. What is the term used to describe the dark orange stripes on Jupiter?**

- A) Zones
- B) Belts**
- C) Rings
- D) Vortices

**10. What is the largest moon in our solar system?**

- A) Europa
- B) Io
- C) Ganymede**
- D) Callisto

**11. Why is Jupiter's core described as 'fuzzy'?**

- A) It is made of gas
- B) It is partially dissolved and lacks clear separation**
- C) It is covered in thick clouds
- D) It is made of solid ice

**12. What discovery regarding Jupiter's rings was made by Voyager 1 in 1979?**

- A) They are made of ice
- B) They are composed of dark dust particles**
- C) They are disappearing
- D) They are made of metallic hydrogen

**13. How far away is Jupiter from the Sun in astronomical units (AU)?**

- A) 1.0 AU
- B) 5.2 AU**
- C) 9.5 AU
- D) 30 AU

**14. What does Jupiter's powerful magnetic field create at the planet's poles?**

- A) Lightning storms
- B) Aurorae**
- C) Dust devils
- D) Volcanic eruptions

**15. What happens to a spacecraft if it attempts to fly into Jupiter?**

- A) It floats safely
- B) It is vaporized by extreme pressure and temperature**
- C) It lands on a solid surface
- D) It is ejected into space