

Mission: Jupiter

Name: _____ Date: _____

1. What type of celestial body is Jupiter?

2. Where is it, or which body does it orbit?

3. Copy an important time period and say what it measures.

4. Copy a temperature or a feature of its environment.

Type	Gas giant
Diameter	139,820 km
Mass (Earth = 1)	317.8 Earth masses
Average distance	5.20 AU · 778.5 million km
Orbital period	11.86 years
Rotation	9 h 56 min
Temperature	≈ -110 °C at cloud level
Main orbiting bodies	Io, Europa, Ganymede and Callisto

5. Choose two figures from the table and explain their units.

6. Explain this comparison in your own words: About 1,300 Earths could fit inside its volume.

Check and explain

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7. What are the four Galilean moons?

- A. Io, Europa, Ganymede and Callisto
- B. Titan, Rhea, Iapetus and Mimas
- C. Phobos, Deimos, Charon and Nix
- D. Triton, Nereid, Proteus and Ariel

8. Which spacecraft has studied Jupiter from orbit since 2016?

- A. Juno
- B. Magellan
- C. Dawn
- D. Viking 1

9. What is the largest moon in the Solar System?

- A. The Moon
- B. Titan
- C. Ganymede
- D. Triton

10. Does Jupiter have an accessible solid surface?

- A. Yes, beneath an ocean
- B. No, it is a gas giant
- C. Yes, made of ice
- D. Yes, made of sand

11. Write two units from the table and the quantities they measure.

12. Why is an illustration not always drawn to scale?

13. Give one similarity and one difference compared with Earth.

Investigate like a scientist

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Text to analyse

Jupiter is the most massive planet. Its Great Red Spot is an ancient storm larger than Earth, while its Galilean moons almost form a small planetary system of their own. The Great Red Spot is a storm observed for centuries and larger than Earth. In 1610, Galileo observed Io, Europa, Ganymede and Callisto, showing that not everything orbits our planet.

14. Copy one observation or checkable fact from the text.

15. Write a scientific question you would like to investigate.

Writing mini-mission

Imagine a spacecraft studying Jupiter. Describe what it observes and what it aims to measure. Write 5 to 7 sentences using at least three scientific terms. Do not invent a solid surface on a gas giant or present a hypothesis as a fact.

Scientific terms used: _____