

Mission: Uranus

Name: _____ Date: _____

1. What type of celestial body is Uranus?

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	Ice giant
Diameter	50,724 km
Mass (Earth = 1)	14.5 Earth masses
Average distance	19.19 AU · 2.87 billion km
Orbital period	84 years
Rotation	17 h 14 min · retrograde
Temperature	≈ -195 °C
Main orbiting bodies	Titania, Oberon, Ariel, Umbriel and Miranda

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

6. Explain this comparison in your own words: Its diameter is almost 4 times Earth's.

Check and explain

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7. Which spacecraft flew past Uranus?

- A. Voyager 2
- B. Cassini
- C. Juno
- D. Parker Solar Probe

8. Approximately how long is a season on Uranus?

- A. One week
- B. One year
- C. 21 Earth years
- D. 1,000 years

9. Which family does Uranus belong to?

- A. Rocky planets
- B. Ice giants
- C. Stars
- D. Dwarf planets

10. Does Uranus have rings?

- A. No
- B. Yes, a system of dark rings
- C. Just one ring of fire
- D. Only in summer

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

Uranus rotates almost on its side, possibly because of an ancient collision. Methane in its atmosphere absorbs red light and contributes to its blue-green colour. Its axis is tilted by about 98 degrees: Uranus appears to roll along its orbit. Each season lasts nearly 21 Earth years.

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 Uranus. 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: _____