

Mission: Venus

Name: _____ Date: _____

1. What type of celestial body is Venus?

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	Rocky planet
Diameter	12,104 km
Mass (Earth = 1)	0.815 Earth masses
Average distance	0.72 AU · 108.2 million km
Orbital period	224.70 days
Rotation	243 days · retrograde
Temperature	≈ 465 °C
Main orbiting bodies	No moons

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

6. Explain this comparison in your own words: Almost as large as Earth, but hotter than Mercury.

Check and explain

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7. In which direction does Venus rotate?

- A. It never rotates
- B. In a retrograde direction
- C. Like Earth, but twice as fast
- D. Around the Moon

8. What do its clouds contain?

- A. Pure water
- B. Sulphuric acid
- C. Sand
- D. Liquid methane

9. Which mission revealed its terrain using radar?

- A. Magellan
- B. Juno
- C. Dawn
- D. Rosetta

10. Does Venus have a moon?

- A. Yes, one
- B. Yes, three
- C. Yes, twelve
- D. No

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

Beneath its sulphuric acid clouds, Venus hides a rocky world with an extreme greenhouse effect. Its slow, retrograde rotation makes it one of the most unusual planets. Venus rotates very slowly and in a retrograde direction. A Venusian sidereal day lasts longer than its year around the Sun.

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 Venus. 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: _____