

Answers: Moon

Marking guidance - Value reasoning as well as the selected answer

1 to 4 | Identify

1. Natural satellite.
2. Accept a correct location or orbital relationship.
3. Rotation: 27.32 days; orbital period: 27.32 days around Earth.
4. Temperature: -173 to 127 °C; also accept a correct environmental feature.

5 and 6 | Read and compare

5. Each figure needs its unit and measured quantity.
6. The explanation should preserve the meaning of this comparison: Its diameter is a little over a quarter of Earth's.

Teaching point

A rounded figure is still a useful estimate. The size of a drawing does not prove that its proportions are correct. A comparison must state its reference.

Answers: check and explain

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7. C. No, only an extremely thin exosphere

Its gas envelope is so thin that it is called an exosphere.

8. A. Artemis

Artemis aims to develop sustained human exploration, particularly near the south pole.

9. B. Vast plains of solidified lava

The maria are dark basalt plains formed by ancient lava flows.

10. B. One sixth of Earth's

On the Moon, your weight is about one sixth of your weight on Earth.

11 to 13 | Quantities and models

- 11. Accept two units from the table correctly linked to their quantities.
- 12. Bodies can be enlarged or distances compressed for readability, but this must be stated.
- 13. Accept accurate similarities and differences supported by a fact sheet or scientific source.

Answers: investigate and write

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14 | Observation or fact

Accept an accurate sentence describing a checkable characteristic or figure. Do not accept an opinion presented as a fact.

15 | Scientific question

The question should be investigable through observations, measurements, comparisons or a mission. Reward precise, testable wording.

Mini-mission | Suggested marks out of 10

Description of the environment: 0-2.

Three correctly used scientific terms: 0-2.

Clear exploration objective: 0-2.

Plausible mission and coherent account: 0-2.

Between 5 and 7 clear sentences: 0-2.

Adaptation

Accept spoken explanations when appropriate. For further challenge, require data and distinguish observation, interpretation and conclusion.

Sources and limitations

NASA Science: <https://science.nasa.gov/moon/facts/>

Online fact sheet: <https://systeme-solaire-3d.fr/en/lune>

Values are rounded. The artistic view changes sizes and distances for readability. Check dated information before reusing it.