

# AstroVenus

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Attribution for each question is documented in the Appendix

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Latex markup at

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# 1 Quiz

1. When imaged in visible light Venus appears like ----- rather than -----.<sup>1</sup>
  - A. an asteroid ... a terrestrial planet
  - B. a gas dwarf ... a rocky planet**
  - C. Mars ... Venus
  - D. Venus ... Mars
2. The clouds on Venus are made of<sup>2</sup>
  - A. water
  - B. steam
  - C. carbon dioxide
  - D. nitrogen
  - E. sulfuric acid**
3. The geology of Venus is predominantly<sup>3</sup>
  - A. Basalt**
  - B. Andesite
  - C. Picrite
4. Basalt is what type of rock?<sup>4</sup>
  - A. Igneous**
  - B. Sedimentary
  - C. Metamorphic
5. The rocks on Venus are mostly<sup>5</sup>
  - A. from volcanoes**
  - B. from the seabed of a now non-existent ocean
  - C. associated with plate tectonics
6. The rocky surface of the planet Venus can be detected when Venus is observed using infrared astronomy.<sup>6</sup>
  - A. TRUE
  - B. FALSE**
7. When Venus is viewed in the ultraviolet, its color appears brownish.<sup>7</sup>
  - A. TRUE
  - B. FALSE**
8. Moldavite is a mineral that may be associated with what radiation astronomy phenomenon?<sup>8</sup>
  - A. lightening strikes
  - B. meteorite impacts and fireballs**
  - C. evidence that Venus was once a comet
  - D. predicting when currently dormant volcanoes will erupt
9. According to Wikipedia, a "mineral" is a naturally occurring solid that<sup>9</sup>
  - A. is heterogeneous
  - B. has useful value

**C. is by a chemical formula**

D. contains carbon

E. does not contain carbon

10. Which types of radiation astronomy directly observe the rocky-object surface of Venus?<sup>10</sup>

A. X-ray astronomy

B. ultraviolet astronomy

C. visual astronomy

D. infrared astronomy

**E. radio astronomy**

11. One reason that Venus's atmosphere has more carbon dioxide than Earth's is that<sup>11</sup>

A. the mass of Venus is slightly higher

**B. Venus was too hot for oceans that could absorb the carbon dioxide**

C. Venus is exposed to a stronger solar wind strips away the other gasses

D. Venus has a lower magnetic field that disassociates carbon dioxide

12. The surface temperature of Venus is about<sup>12</sup>

**A. 850 Fahrenheit (730 Kelvin or 230 Celsius)**

B. 450 Fahrenheit (500 Kelvin or 66 Celsius)

C. 150 Fahrenheit (340 Kelvin or 66 Celsius)

13. The Venetian atmosphere consists of mostly carbon dioxide and<sup>13</sup>

A. oxygen

B. helium

C. hydrogen

**D. nitrogen**

E. sulfuric acid

## 2 Attribution

### Notes

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