



OUT OF THIS WORLD

Land-Sailing Venus Rover

Venus may be called Earth's twin, but the conditions on Venus are far from welcoming for us Earthlings. Thick clouds, acid rain, and searing temperatures have kept space probes from visiting this hostile planet. Read *Land-Sailing Venus Rover* to learn more!

What did you learn?

QUESTIONS

- Venus is marked by ...
 - Scars
 - Storms
 - Impact craters
 - Its red color
- The first probe that landed on Venus was ...
 - Venera 2
 - Venera 1
 - Venera 5
 - Venera 7
- Venera 13 took ...
 - 66 photographs
 - 11 photographs
 - 22 photographs
 - 44 photographs
- The main obstacle to exploring Venus is the ...
 - Heat
 - Sunlight
 - Distance
 - Oxygen
- What does NIAC stand for?
- Who is this?



TRUE OR FALSE?

- | | |
|--|--|
| _____ 1. Venus is the third planet from the sun. | _____ 4. Sending a robotic geologist is the best way to learn about Venus. |
| _____ 2. Venus is hotter than Earth. | _____ 5. The craft use batteries to power themselves. |
| _____ 3. Venera 13 is the most successful lander in the program. | _____ 6. Land sailing requires flat ground and wind. |

ANSWERS

- 1. c. Impact craters.** According to section "Destination: Venus" on page 9, we know that "Like many solid bodies in the solar system, Venus's surface is also marked by impact craters." So, the correct answer is C.
- 2. d. Venera 7.** According to section "Previous explorations" on page 16, we know that "The Venera 7 lander made the first landing on Venus in 1970." So, the correct answer is D.
- 3. c. 22 photographs.** According to section "Roving Venus" on page 22, we know that "Venera 13's haul of 22 photographs and other data was impressive," So, the correct answer is C.
- 4. a. Heat.** According to section "Taking the heat" on page 25, we know that "The main obstacle to exploring Venus will be the heat." So, the correct answer is A.
- 5.** According to page 7, NIAC stands for NASA Innovative Advanced Concepts.
- 6.** As can be seen on page 7, the illustration shows Geoffrey Landis.

TRUE OR FALSE? ANSWERS

- 1. False.** According to section "Destination: Venus" on page 8, we know that "Venus is the second planet from the sun, and Earth is the third." So, the correct answer is False.
- 2. True.** According to section "Hostile conditions" on page 12, we know that "It is far hotter than Earth." So, the correct answer is True.
- 3. True.** According to section "Previous explorations" on page 18, we know that "By far the most successful lander of the program was Venera 13, which landed on Venus in 1982." So, the correct answer is False.
- 4. True.** According to section "Taking the heat" on page 24, we know that "The best way to learn about Venus may be to send a robotic geologist—a rover." So, the correct answer is True.
- 5. False.** According to section "Cloudy skies ahead" on page 32, we know that "The craft use devices called solar cells to convert the energy of sunlight into electricity." So, the correct answer is False.
- 6. True.** According to section "Getting around" on page 36, we know that "Land sailing involves two main requirements. First, it requires relatively flat, smooth ground. The second thing land sailing requires is wind." So, the correct answer is True.