



LIVING GREEN

Green Buildings

Learn about Earth-friendly architecture and why being “green” is important for the health of Earth and its living things.

What did you learn?

QUESTIONS

1. For the past century or more, much of the world has run on ...
 - a. Water energy
 - b. Carbon
 - c. Fossil fuels
 - d. Green energy
2. A plastic material embedded with thin glass fibers for strength is ...
 - a. Fiberglass
 - b. Plastic glass
 - c. Glass plastic
 - d. Fiber plastic
3. A solar-heated building has large windows that face ...
 - a. North
 - b. South
 - c. East
 - d. West
4. The population of global cities is expected to increase by about 2 billion people by the year ...
 - a. 2050
 - b. 2045
 - c. 2025
 - d. 2030
5. What is *global warming*?
6. What is the *greenhouse effect*?

TRUE OR FALSE?

- _____ 1. Saving old materials to use for firewood is called reclaiming or salvaging.
- _____ 2. Linoleum is a type of flooring poorly suited for kitchens and bathrooms.
- _____ 3. One way to make buildings more efficient is to use rooftops that are highly reflective.
- _____ 4. In larger, more complex buildings, architects often allocate electricity generated by solar panels to specific jobs.
- _____ 5. The Jubilee Campus of the University of Nottingham contains some of the greenest architecture in the United Kingdom.
- _____ 6. Sidwell Friends Middle School is a showcase of recycled materials.

ANSWERS

- 1. c. Fossil fuels.** According to section “What Is Green Architecture?” on page 4, we know that “For the past century or more, much of the world has run on the energy in petroleum, coal, and natural gas—the fuels known as fossil fuels.” So, the correct answer is C.
- 2. a. Fiberglass.** According to section “Doors” on page 23, we know that “Fiberglass is a plastic material embedded with thin glass fibers for strength.” So, the correct answer is A.
- 3. b. South.** According to section “Heating and Cooling” on page 41, we know that “A solar-heated building has large south-facing windows that let in heat from the sun in winter.” So, the correct answer is B.
- 4. d. 2030.** According to section “Government Action” on page 57, we know that “By the year 2030, the population of global cities is expected to increase by about 2 billion people.” So, the correct answer is D.
- 5.** According to page 60, *global warming* is “the gradual warming of Earth’s surface, believed to be caused by a build-up of greenhouse gases in the atmosphere.”
- 6.** According to page 60, the *greenhouse effect* is “the process by which certain gases cause the Earth’s atmosphere to warm.”

TRUE OR FALSE? ANSWERS

- 1. False.** According to section “Building Materials” on page 11, we know that “Saving old materials for reuse in a similar way is called reclaiming or salvaging.” So, the correct answer is False.
- 2. False.** According to section “Flooring” on page 16, we know that “Linoleum is a type of flooring often used in kitchens and bathrooms.” So, the correct answer is False.
- 3. True.** According to section “Roofing” on page 28, we know that “One way to make buildings more efficient is to use rooftops that are highly reflective.” So, the correct answer is True.
- 4. True.** According to section “Electricity” on page 34, we know that “In larger, more complex buildings, architects often allocate electricity generated by solar panels to specific jobs.” So, the correct answer is True.
- 5. True.** According to section “Landscaping” on page 47, we know that “The Jubilee Campus of the University of Nottingham contains some of the greenest architecture in the United Kingdom.” So, the correct answer is True.
- 6. True.** According to section “Sidwell Friends Middle School” on page 52, we know that “Sidwell Friends Middle School is a showcase of recycled materials.” So, the correct answer is True.