

Rooftop Gardens Quiz

True or False

Write either the letter "T" for true or letter "F" for false in the box before each statement.

1. Rooftop gardens make growing food in a city more difficult.
2. Rooftop gardens reduce and clean stormwater runoff.
3. The "urban heat island effect" affects weather and climate.
4. The sun heats the surface of the Earth through radiation.
5. Absorbers are materials that change the direction of light waves.

Multiple Choice

Circle the best answer.

6. _____ surfaces absorb all wavelengths of light and therefore, get hotter than other colored surfaces.
(a) White (b) Blue (c) Red (d) Black
7. During photosynthesis, plants use water and _____, which is a greenhouse gas.
(a) carbon dioxide (b) carbon monoxide (c) oxygen (d) ozone
8. _____ is the phenomenon in which ambient air temperature in cities is higher than its surrounding suburban or rural areas.
(a) Global warming (b) Urban heat island effect
(c) Climate change (d) Temperature inversion
9. Materials in cities, such as asphalt and concrete, absorb _____ heat compared to natural materials, such as plants and soil.
(a) less (b) more (c) the same amount of
10. Which of the following is something that structural engineers do NOT have to consider when constructing a rooftop garden?
(a) height of the roof (b) condition of the roof
(c) access to the roof (d) structural capacity of the roof