

Rooftop Gardens Quiz **Answers**

True or False

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

F	1. Rooftop gardens make growing food in a city more difficult.
T	2. Rooftop gardens reduce and clean stormwater runoff.
T	3. The “urban heat island effect” affects weather and climate.
T	4. The sun heats the surface of the Earth through radiation.
F	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