

Name:

Date:

Class:

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