

The Basics of Green Roofs:

The New School

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A fun and interactive way to introduce green roofs to 5th and 6th graders!

*Created based on NYS Science standards

What are green roofs? and why are they important to us?

Green Roofs are the roofs of buildings that are partially or completely covered with vegetation and a growing medium, planted over a waterproofing membrane.

Benefits of green roofs:

1. Helps reduce the heat island effect
2. Helps remove carbon dioxide from the atmosphere
3. Helps reduce the energy required to heat/cool a building
4. Increase biodiversity
5. Retains stormwater

What do you think a green roof looks like? Have you ever visited one? In the space below, draw what you think a green roof looks like: (After you finish the drawing share it with your classmates!)

Fill in each of the vocabulary words with the correct letters: (Practice spelling the word below it)

1. G _ _ _ n R _ _ _

2. W _ t _ _ pr _ _ _ _ _ g

3. _ ea _ A _ _ _ r _ _ _ _

4. S _ o _ _ _ a

5. Ur _ _ _ H _ _ _ I _ _ _ nd

6. _ io _ _ _ _ _ s _ ty

7. Cl _ _ _ _ e C _ _ _ ge

8. Gre _ _ I _ fra _ _ _ uc _ _ _ _

9. _ re _ _ Ho _ _ _

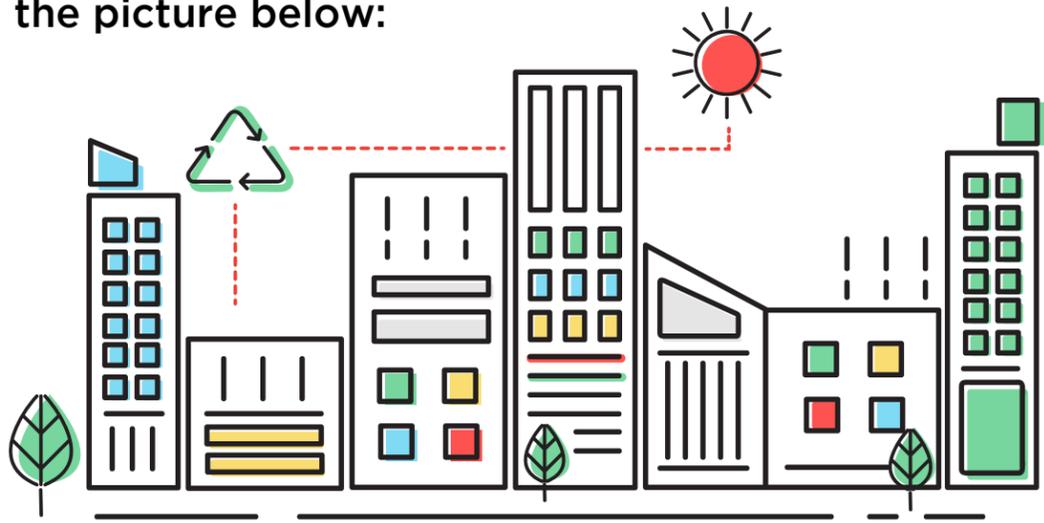
10. Geo _ _ _ _ _ al E _ er _ y

*Bonus:

E _ _ p _ _ ran _ _ _ _ _ tion

Multiple Choice Questions

In the picture below:



1. What is sustainable in the picture above?

- a. the buildings electricity
- b. the street
- c. the sun
- d. the windows

2. The total amount of organisms in a given area or volume is biomass.

- a. true
- b. false
- c. it depends

3. What is an example of renewable resource in the picture above?

- a. the decomposer
- b. the buildings
- c. the sun

Reflection Questions:

1. What are green roofs?

2. What is the difference between reusable energy and renewable energy?

3. Why is energy conservation important?

4. What are some places to get energy from? (solar, heat, etc.)

5. What is climate change?

