

LEED® & GREEN BUILDING WEBQUEST

Names: _____

Date: _____

Objective: Alone or with a partner use the websites listed below and information from the in class lecture to complete the following questions about Green Building and LEED®.

Websites:

www.gggc.state.pa.us/gggc

www.usgbc.org

<http://www.cap-e.com/ewebeditpro/items/O59F11233.pdf>

www.energy.gov

www.epa.gov

Questions:

1. Green schools save on average \$_____ per year – That's enough to buy _____ new computers or buy _____ new textbooks for students.
 2. Buildings are responsible for producing _____% of CO2 emissions each year, known to cause global warming.
 3. The _____rating system is the nationally accepted benchmark for design construction and operation of high performance green buildings.
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4. The four levels of LEED certification are _____, _____, _____, and _____.

5. Buildings drain _____% of the fresh water we need to drink and survive each year.

6. We as humans spend about _____% of our lives indoors at school, work, home, practice or church.

7. The average person creates _____pounds of waste in the form of garbage each day, while the building industry is responsible for sending _____ tons of waste to landfills each year.

8. The building industry currently recycles between _____ and _____% of construction waste and demolition debris on average.

9. The LEED rating system allows building projects to earn points in six categories. They are _____, _____, _____, _____, _____, and _____.

10. LEED stands for what? _____

11. List three reasons why the LEED rating system was developed. _____, _____, _____

12. An estimated _____ school days are missed each year as a result of asthma.

13. Currently there are _____ states requiring LEED certification on publicly funded building projects.

14. The average green school uses _____less energy and electricity than traditional schools.

15. Green schools cost on average _____% more initially than traditional ones with an expected payback period of around _____ years.

16. In the Carnegie Mellon University study, green principles were found to reduce asthma and allergies up to _____% and increase productivity by up to _____%.

17. Building one green school could keep _____pounds of CO₂ and _____ pounds of nitrogen dioxide from being emitted annually.

18. The average green school uses _____% less water than traditional schools do.

19. The state of the art Fossil Ridge High School in the case study cost the school district \$_____ additional to go green.

20. The Clearview Elementary School uses _____% less energy than a traditional elementary school of its size.
