

Mary Idema Pew Green Building (LEED) Scavenger Hunt

Instructions: Welcome to the Mary Idema Pew Green Building (LEED) Scavenger Hunt. Throughout the library you will find Scavenger Hunt QR codes. Scan a QR code to watch the video, then answer the question below. You are expected to stay in your assigned groups for this activity rather than splitting up.

Green Building (LEED) Attribute 01: Introduction

1st floor, Main entrance, Mary Idema painting

1. What is (are) your name(s)? _____
2. What is LEED certification, and how many levels of LEED certification are there?

3. How did GVSU determine which energy efficiency measures to include in construction of the library?

Green Building (LEED) Attribute 05: Mechanical Systems

1st floor, Plexiglass display

4. Name three library mechanical systems that are regulated by sensors and automated systems.

5. What are the sustainability functions provided by the library's automated mechanical systems?

Green Building (LEED) Attribute 06: Open Layout and Furniture Selection

1st floor, Room 131

6. What is the sustainability function of the library's open layout and diverse furniture selection?

Green Building (LEED) Attribute 07: Book Retrieval Systems

1st floor, Checkout computer station by main exit

7. What are the sustainability functions of the ASRS? _____

Green Building (LEED) Attribute 08: Daylight Harvesting and Occupancy Sensor Lighting

3rd floor, Lightwell (reading garden)

8. What are the sustainability functions of a lightwell? _____

9. What are the sustainability functions of solar shading? _____

Green Building (LEED) Attribute 09: Energy Recovery - Water Stream

4th floor, Computer zone bathrooms

10. How does the design of the library's stormwater system contribute to the library's sustainability? _____

11. How does the library's water use compare to a conventional building? _____

Green Building (LEED) Attribute 10: Green Roof and Cool Roof

4th floor, Green roof

12. What is the heat island effect? _____

13. Describe three major issues caused by the heat island effect. _____

14. What are the sustainability features of the library's green roof? _____

15. What are the sustainability features of the library's cool roof? _____

Green Building (LEED) Attribute 11: Energy Recovery - Air Stream

Atrium floor, DeWitt Exhibition Space

16. What are the current and anticipated relationships between air cooling systems and global climate change?

17. What are the sustainability features of the library's HVAC (heating, ventilation, and air conditioning) system?

Green Building (LEED) Attribute 12: Building Materials

Atrium floor, Room 030

18. How did the library's builder address sustainability during the construction process? _____

19. How do the library's building materials address noise and air pollution? _____

Green Building (LEED) Attribute 14: Critiques of LEED, LEED 5.0, and Closing

Exit airlock between the Atrium and 1st floors

20. How has GVSU's energy footprint changed over the last 20 years? _____

21. What are three major critiques of LEED green building certification? _____

22. What are three ways in which LEED 5.0 will change to address critiques? _____
