

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?

Scavenger Hunt Competition: Take a selfie with your group at the Scavenger Hunt starting point (+2 points)

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?

Scavenger Hunt Competition: Take a selfie with your group at the plexiglass mechanical system display (+3 points)

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?

Scavenger Hunt Competition: Take a selfie with your group at a minimum of three different pieces of furniture (+1 point each, total of 5 possible points)

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? _____
- _____
- _____

Scavenger Hunt Competition: Take a photo of a library computer displaying a book located in the ASRS (+3 points)

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? _____
- _____
- _____

Scavenger Hunt Competition: Take a selfie with your group in any library location that demonstrates daylight harvesting (+2 points each location, total of 6 possible points)

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? _____
- _____
- _____

Scavenger Hunt Competition: Take a selfie with your group at any library water fountain (+2 points)

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

4th floor, Green roof

11. What is the heat island effect? _____
- _____
- _____
12. Describe three major issues caused by the heat island effect. _____
- _____
- _____
13. What are the sustainability features of the library's green roof? _____
- _____
- _____
14. What are the sustainability features of the library's cool roof? _____
- _____
- _____

Scavenger Hunt Competition: Take a selfie with your group on the green roof (or at the door during the winter months) (+3 points)

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

Atrium floor, DeWitt Exhibition Space

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

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

Scavenger Hunt Competition: Take a selfie with your group at any library air vent (+2 points)

Green Building (LEED) Attribute 12: Building Materials

Atrium floor, Room 030

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

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

Scavenger Hunt Competition: Take a selfie with your group in front of any wooden wall feature (+2 points)

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

Exit airlock between the Atrium and 1st floors

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

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

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

Scavenger Hunt Competition: Compile your photos into a zip folder, Google Drive folder, or similar and submit via Blackboard. Please be sure that the names of your groupmates are included in your submission.