

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 02: Green Spaces

1st floor, Main entrance, outside tables

4. What are three functions of green spaces in terms of sustainability? _____

5. To meet LEED certification, how much green space was included in the design of the library? _____

Scavenger Hunt Competition: Take a selfie with your group at one of the green spaces outside of the library (+5 points).

Green Building (LEED) Attribute 03: Access to Public Transportation

1st floor, Main entrance, outside tables

6. What is the relationship between public transportation and LEED certification? _____

7. What are the co-benefits of public transportation beyond LEED certification? _____

Scavenger Hunt Competition: Take a selfie of your group at the Kirkhoff/Pew Library bus stop (+5 points)

Green Building (LEED) Attribute 04: Double Door Airlock

1st floor, Main entrance, airlock

8. What are the sustainability features of a double door airlock? _____
- _____
- _____

Scavenger Hunt Competition: Take a selfie of your group inside one of the library's airlocks (+2 points)

Green Building (LEED) Attribute 05: Mechanical Systems

1st floor, Plexiglass display

9. 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

10. What are the sustainability functions 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

11. 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)

12. What are the sustainability functions of a lightwell? _____
- _____
- _____
13. What are the sustainability functions of solar shading? _____
- _____
- _____
14. How much of the library is lit by natural light during daylight hours? _____

15. How much more energy efficient is the Mary Idema Pew library in comparison to a conventional building?

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

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

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

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

18. What is the heat island effect? _____

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

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

21. 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

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

23. 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

24. How do the library's building materials meet and exceed the LEED requirements? _____

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

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

Green Building (LEED) Attribute 13: Art in Green Buildings

Atrium floor, Roman Corinthian Capital art piece

26. What is the relationship between art and green building? _____

27. What are three benefits of art in buildings beyond sustainability? _____

Scavenger Hunt Competition: Take a selfie with a piece of art (+1 point each, total of 10 possible points)

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

Exit airlock between the Atrium and 1st floors

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

29. 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.

Visit the LEED website and find the newest LEED specifications. Conduct an internet search to find another US-based green building certification process. Compare the specifications.

- a. Which of the specifications more thoroughly addresses building issues related to the built environment's contribution to global climate change, and how/why?
- b. Which of the specifications more thoroughly addresses building issues related to environmental and/or climate justice, and how/why?

This image shows a full page of blank, lined paper. It features approximately 20 evenly spaced horizontal grey lines across its entire width, typical of notebook or legal stationery. The paper is otherwise completely empty, with no margins, text, or other markings.