

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. What are the physical and mental health benefits of green spaces? _____

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. Name three library mechanical systems that are regulated by sensors and automated 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. Throughout the library there are 29 different types of indoor seating. What is the purpose of this diversity in furniture?

11. 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

12. Why do the atrium and first floor levels of the library hold so few books? _____

13. 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)

14. What is daylight harvesting? _____

15. What is a lightwell? _____

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

17. What is solar shading? _____

18. 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

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

20. 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

4th floor, Green roof

21. What is the heat island effect? _____

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

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

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

25. How much cooler is the library's roof in comparison to a conventional building? _____

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

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

27. 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

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

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

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

30. 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

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

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

33. 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.