

## 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? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

*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*

5. What is the relationship between public transportation and 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*

6. 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***

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

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

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*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***

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

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*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***

10. What are the sustainability functions of the ASRS? \_\_\_\_\_

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*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**

***3<sup>rd</sup> floor, Lightwell (reading garden)***

11. What is daylight harvesting? \_\_\_\_\_

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12. What is a lightwell? \_\_\_\_\_

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13. What are the sustainability functions of a lightwell? \_\_\_\_\_

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14. What is solar shading? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

15. 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**

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**  
**4th floor, Green 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? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

22. 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***

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

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*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? \_\_\_\_\_

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*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***

25. What is the relationship between art and green building? \_\_\_\_\_

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*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***

26. How has GVSU's energy footprint changed over the last 20 years? \_\_\_\_\_

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27. What are three major critiques of LEED green building certification? \_\_\_\_\_

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28. What are three ways in which LEED 5.0 will change to address critiques? \_\_\_\_\_

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*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.