

## 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 02: Green Spaces

*1st floor, Main entrance, outside tables*

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

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

### Green Building (LEED) Attribute 04: Double Door Airlock

*1st floor, Main entrance, airlock*

6. What are the sustainability features of a double door airlock? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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

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15. What are the sustainability functions of solar shading? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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

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*

17. What is the heat island effect? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

18. Describe three major issues caused by the heat island effect. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

19. What are the sustainability features of the library's green roof? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

20. What are the sustainability features of the library's cool roof? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

21. How much cooler is the library's roof in comparison to a conventional building? \_\_\_\_\_

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

*Atrium floor, DeWitt Exhibition Space*

22. 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*

23. How do the library's building materials meet and exceed the LEED requirements? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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

*Atrium floor, Roman Corinthian Capital art piece*

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

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

*Exit airlock between the Atrium and 1st floors*

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

26. What are three major critiques of LEED green building certification? \_\_\_\_\_  
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27. What are three ways in which LEED 5.0 will change to address critiques? \_\_\_\_\_  
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