

### 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**

*3<sup>rd</sup> 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?

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

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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? \_\_\_\_\_

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

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

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

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*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?

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

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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*

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

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

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28. *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*

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

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30. 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.

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- This image shows a full page of blank, lined paper. It features approximately 20 evenly spaced horizontal grey lines across its entire width, providing a guide for handwriting or typing. The paper itself is a clean, off-white color. There are no margins, text, or other markings present on the page.

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