

### 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 05: Mechanical Systems

*1st floor, Plexiglass display*

4. Name three library mechanical systems that are regulated by sensors and automated systems.  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
5. 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*

6. 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***

7. 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)***

8. What are the sustainability functions of a lightwell? \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
9. 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***

10. How does the design of the library's stormwater system contribute to the library's sustainability? \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

*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***

11. What is the heat island effect? \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
12. Describe three major issues caused by the heat island effect. \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

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

14. 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***

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

16. 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***

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

18. How do the library's building materials address noise and air pollution? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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

**Green Building (LEED) Attribute 14: Critiques of LEED, LEED 5.0, and Closing**  
***Exit airlock between the Atrium and 1st floors***

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

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

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21. 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.