Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Our Watershed: Protection through Management**

**Question:** How do flood protection and nonpoint source management practices help protect our watershed?

**Knowledge Probe:** What does your team know that will help you answer the question?

**Prediction** (*Hypothesis)*:

**Evidence:**

|  |  |
| --- | --- |
| Flood Protection Practices | Nonpoint Source Management Practices |
|  |  |

**The Scavenger Hunt:**

*Find and tally the things you find that may help you to answer the question! Check the box(es) that match the term and explain WHY!*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Term** | **Tally** | **Flood Protection** | **Nonpoint Source Management** | **Other** |
| Art |  |  |  |  |
| Catch Basin |  |  |  |  |
| Combined Sewer Overflow(CSO) |  |  |  |  |
| Dams |  |  |  |  |
| Michigan Department of Environmental Quality (MDEQ) |  |  |  |  |
| US Environmental Protection Agency (USEPA) |  |  |  |  |
| **Term** | **Tally** | **Flood Protection** | **Nonpoint Source Management** | **Other** |
| Federal Emergency Management Agency (FEMA) |  |  |  |  |
| Flood Walls |  |  |  |  |
| Gabion |  |  |  |  |
| Gray Infrastructure |  |  |  |  |
| Green Infrastructure |  |  |  |  |
| Green Space |  |  |  |  |
| **Term** | **Tally** | **Flood Protection** | **Nonpoint Source Management** | **Other** |
| Historic Markers |  |  |  |  |
| Impervious Surfaces |  |  |  |  |
| Leaching Basin |  |  |  |  |
| Low Impact Development(LID) |  |  |  |  |
| Lower Grand River Watershed |  |  |  |  |
| Manhole Covers |  |  |  |  |
| **Term** | **Tally** | **Flood Protection** | **Nonpoint Source Management** | **Other** |
| Municipal |  |  |  |  |
| Nonpoint Source Pollution(NPS) |  |  |  |  |
| Outfall |  |  |  |  |
| Riparian |  |  |  |  |
| River Gage |  |  |  |  |
| Runoff |  |  |  |  |
| **Term** | **Tally** | **Flood Protection** | **Nonpoint Source Management** | **Other** |
| Sewershed |  |  |  |  |
| Stormwater |  |  |  |  |
| Storm Sewer System |  |  |  |  |
| Stormwater Pumping Station |  |  |  |  |
| Trees |  |  |  |  |
|  |  |  |  |  |

**Data Analysis**: Look at the information you’ve collected to see what may help you to answer the question. As a team, discuss the most important facts that will help you to answer the question. Highlight at least 6 facts that you will use.

**Explanation:**  In the space below and on the back of the paper write a rough draft of your CER. Be sure to include all of the necessary parts. Once this is done have a classmate or relative edit your writing. The editor should make notes then sign on the bottom back of the sheet. The final CER should be typed using 12 font, Times New Roman, single spaced paragraphs, double spaced between paragraphs.

**Claim:** A statement that provides your answer to the question.

**Evidence:** The specific scientific information that you have collected that supports your claim. A minimum of 6 facts should be used.

**Reasoning:** Your argument used to determine why the selected facts should count as evidence. How does the information you selected help you to answer the question. Do you have a strong argument or is more information needed to make a better claim?

Editor Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_