**Food Web Rubric: “How Wolves Change Rivers”**

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| **Criteria** | **Level 1** | **Level 2** | **Level 3** | **Level 4** |
| Understanding of the food web from Yellowstone National Park | Less than 10 organisms in the food web. | 15 to 20 organisms in the food web. | 25 to 30 organisms in the food web. | Very detailed web, naming each organism; 35+ organisms in the food web. |
| Understands the difference between producer, consumer and decomposer | Does not label the organisms producers, consumers, and decomposers in the food web | Labels some of the producers, consumers, and decomposers correctly in the food web; leaves some empty. | Labels most of the producers, consumers, and decomposers correctly in the food web. | Labels ALL producers, consumers, and decomposers correctly in the food web |
| Demonstrates an understanding of interactions between, humans, abiotic and biotic organisms in an ecosystem. | Demonstrates a basic knowledge, . | Demonstrates some knowledge, using an explanation and no examples or detail. | Demonstrates a solid knowledge, by detailed explanations and an example. | Demonstrates a thorough knowledge, by numerous and detailed explanations and examples. |

1. Describe what happens to an ecosystem when a predator is taken out of the food web, such as the wolf in Yellowstone National Park. (I’m looking for 3 details using scientific vocabulary)
2. What would happen if a producer was taken out of a food web? What affect would it have on consumers? Think of a situation where this may happen.
3. How did the wolves affect the abiotic (non-living) elements of Yellowstone National Park?