**NOVA: Mt. St. Helens: Back From the Dead** Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. When did Mt. St. Helens erupt last?

**For questions 1-6, answer any 4**

2. Where is Mt. St. Helens located?

3. How much magma was released during the eruption?

4. How far from the summit is Spirit Lake located?

5. How many people were killed by the eruption?

6. How far away was the furthest victim?

7. How many birds disappeared during this disaster? How many insects?

**For questions 7-19, you may answer any 10 questions. You don’t need to answer today, you can watch the video, then reflect on the answers later**

8. What happened to Spirit Lake? Explain.

9. Explain what the landscape in region looked like after the eruption.

10. What did ecologists find when they first came to the mountain after the eruption?

11. What were the first signs of life on the mountain? What did they see happening?

12. Why were the ecologists so surprised to see a flowering plant a year after the eruption.

13. How did the plant manage to grow in such a barren area? Explain.

14. What is a pioneering species? How do they help out in nutrient poor environment? Explain.

15. Explain how the pioneering species are helping to revive the landscape.

16. What were scientists finding in Spirit Lake? Why was the dissolved oxygen levels so low? What was this

 causing?

17. Explain how life in the lake is able to come back. What species is first (pioneering species)? How were they

 brought to the lake?

18. How are the salamanders able to survive in the harsh environment?

19. How was the rate of recovery on the mountain? Was it what scientists expected?

* **You must answer the following to questions…**

20. What the Mt. St Helens case study an example of Resilience or Resistance. Explain using specific examples.

Journal Entry: Mt. St. Helens Rebound

After watching **NOVA: Mt. St. Helens** and **The summary video posted on our Teacher page,** write a journal response in journal that discusses the recovery of Mt. St. Helens since the 1980 eruption. Discuss the miraculous return of nature to Mt St. Helens years after the eruption. In your discussion, use the following terms in your answer: succession, pioneer species, symbiosis (mutualism), and nutrient cycling. Make sure to describe the original state of the ecosystem immediately after the eruption. Write the response in your Journal NB.