Nova: ***Mt. St. Helens- Back From the Dead***

Name: _____

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

2: *Where* is Mt. St. Helens located?

3: *How much magma* is released during the eruption?

4: What is a **pyroclastic flow**?

5: *How far from the summit* is Spirit Lake located?

6: *How many people* were killed by the eruption?

7: How far away was the **furthest victim**?

8: ***How many birds*** disappeared during this disaster? ***How many insects***?

9: What happens to **Spirit Lake**? *Explain.*

10: ***Explain*** what the landscape in this region looks like after the eruption. **(End of Part I)**

11: What is the ***"Pacific Ring of Fire"***?

12: ***Explain*** what has caused the volcano at Mt. St. Helens.

13: What did the **ecologist find** when he first came to the mountain after the eruption?

14: What were the **first signs of life** at the mountain? *What did they see happening?*

15: Why were ecologists so surprised to see a flowering plant a year after the eruption? **(End of Part II)**

16: How has the plant managed to grow in such a barren area? ***Explain.***

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

18: What is ***causing earthquakes*** on Mt. St. Helens?

19: *Explain how the pioneering species* are helping to revive the landscape.

20: What were scientists finding in Spirit Lake? Why was the ***dissolved oxygen*** levels so low? *What was this causing?*

21: Explain how life in the lake is able to come back. What species is first (pioneering species)? ***How were they brought to the lake?*** **(End of Part III)**

22: How are the **salamanders** able to survive in the harsh environment?

23: How was the ***rate of recovery*** on the mountain? Was it was scientists expected? **(End of Part IV)**

24: Where does all of the explosive force in volcanoes come from? Where does the gas come from? **(End of Part V)**

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**