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

**“NOVA - Origins: How Life Began” Worksheet**

**Directions:**

Answer the following questions while watching this video. These questions go in chronological order to the video. Some answer to questions will be very close to each other in the video and some will be further away.

1. Approximately when was Earth “born”?
2. Briefly describe the conditions of a pre-biotic Earth:
3. What cataclysm occurred that eventually led to the Moon’s formation?
4. What is the “Heavy Bombardment” and why is it a critical event for life on Earth?
5. What forms of life can survive in environments that are toxic to humans?
6. What was the brown goo that formed in Stanley Miller’s lab experiment?

1. How many different kinds of amino acids have been found in meteorites? Why is this significant?
2. What (who) are stromatolites?
3. Where did the original atmospheric Oxygen come from?
4. Why is the creation of the ozone layer an important event in the history of life on Earth?
5. For approximately how long has life existed on the surface of the Earth, visible without a microscope?

**Answer after the video:**

List two things you already knew before you watched the video.

1.

2.

List three things that you learned from the video.

1.

2.

3.

List two things that still confuse you or you have further questions about from the video.

1.

2.