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

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

Period/Subject: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Post-Trip Snow Algae Worksheet

Discuss and answer the following questions with your group to get a little background information for your project:

1. What is one thing you remember about snow algae from the websites you looked at before the field trip?
2. What is one thing you remember doing on the Snow School field trip?
3. What is one thing you remember about snow algae from the field trip?

Recall the scientific method:

1. What do scientists do in each of the following steps of the scientific method?
   1. Observation --
   2. Question --
   3. Hypothesis --
   4. Analysis --
   5. Discussion/Conclusion --

Look at the Google Slides presentation:

1. What did Kodner Labs (and others) observe?
2. What is their investigative question?
3. Watch the videos and look at the pictures of the snow algae. How are these two forms of algae similar to and different from each other?
4. The Kodner lab has \_\_\_\_\_ hypotheses for snow algae dispersal.
5. Describe each hypothesis:
   1. Hypothesis #1 = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
      1. What happens?
   2. Hypothesis #2 = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
      1. What happens?
6. What are the researchers at Kodner Labs at WWU doing to answer their question and check their hypotheses?
7. Describe the experiment that was done and the data collected as well as you can remember it from the field trips…

What could you learn about next?

1. What could cause algae to change from dormant cysts (red algae) to flagellated cells (green algae) in the spring? What could we do to find out what the trigger is? Brainstorm ideas for experiments that would stimulate the transition from cysts to swimmers.
2. What could cause algae to change from flagellated cells (green algae) to dormant cysts (red algae) in the spring? What could we do to find out what the trigger is? Think of ideas for experiments that would cause the transition from swimmers to cysts.
3. Why does this matter? Why would we care to study this? Who or what could this affect? Why? How?