Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Teacher: \_\_\_\_\_\_\_\_\_\_\_\_Period:\_\_\_ Date:\_\_\_\_\_\_\_

**Synthesizing your Data and Learning**

Please answer the following questions in your lab notebook as a way to better understand the data you obtained through your experiment(s) and through your online research.

1. Restate the main, big picture question of this unit.
2. Restate the main question your group explored.
3. What subsystem did you study?
4. What data types did you gather during your lab?
5. What data types did you gather online?
6. What data gave you direct information about your question or subsystem?
7. What data gave you indirect or proxy information regarding your question or subsystem?
8. Write at least one “Claim – Evidence – Reasoning” statement with regard to your experiment or your online research.
9. How confident are you with this/these statement(s)? See below for more information on how to measure confidence.
10. If you had more time in the lab, what would be your next steps?

**Summit Preparation** –In order to begin preparing for your summit, please visit these sites to learn more about real summits that produce information for policymakers and the general public. Focus on the general format and tone used when producing information that is provided for policymakers and the public. This can be a model for you as you prepare materials for the summit.

* <http://www.ocean-acidification.net/>
  + Pay special attention to pertinent files such as those written for policymakers.
* <http://news-oceanacidification-icc.org>
* <http://www.pmel.noaa.gov/co2/story/Ocean+Acidification>
* The Nature Conservancy. (2008) Scientists unveil “Honolulu Declaration” to address Ocean Acidification. Barcelona, Spain. Press Release, October 8, 2008. Press release can be found directly at: <http://cmore.soest.hawaii.edu/education/teachers/science_kits/materials/Ocean_Acidification/Articles/Honolulu_Declaration_Article.pdf>
* Use Google or the link below to view the summary document produced after the 3rd International Symposium on the Ocean in a High CO2 World in 2012.
  + <http://www.iaea.org/ocean-acidification/download/OA_spm2-FULL-lorez.pdf>
  + Pay special attention to how they define high and low confidence beginning on page 12.

Once you have looked through the above sites and understand the type of products from/for a summit, answer the questions listed below. Questions 1-5 address the Honolulu Declaration and are part of [University of Hawaii C-MORE’s Ocean Acidification Lesson 1a](http://cmore.soest.hawaii.edu/education/teachers/science_kits/materials/Ocean_Acidification/Ocean_Acidification_Binder_Materials.pdf).

1. What did scientists in Florida declare as “the largest and most significant threat that oceans face today”?
2. In your own words, what does the “Honolulu Declaration on Ocean Acidification and Reef Management” hope to accomplish?
3. In your own words, the two major strategies supported by the declaration are:

a.

b.

1. What are two actions you could take to help support these strategies?
2. If coral reefs in Hawai‘i are unable to survive due to ocean acidification, what direct or indirect effects would this have on your life? List three examples.
3. As an extension to #5, what effect might the extinction of coral reefs due to ocean acidification have on the members of your interest group? Draw a network diagram to show the connections among these parts of this system.
4. Take one step back and draw at least two network diagrams showing the connections and changes that might result for some ocean system in response to ocean acidification.