**The Ecology of Lake Tahoe**

**Final Project**

**Project Objectives**

To showcase your understanding of one topic explored during this Sage Session.

To create a self-running display on the topic; you will not be presenting, the presentation runs itself like a display in a museum.

**Primary Learning Outcomes**

* Students will synthesize and summarize information about a topic relevant to the ecology of Lake Tahoe.
* Students will create a visual display of information to inform visitors about the topic.
* Students will demonstrate understanding of one learning objective from the course.

**Requirements for the Project**

**Topic Choices**

1. Geology (features and formation)
   1. Past glaciation
   2. Fractures and Faults
2. Field Journal: Native flora and fauna (features and role in the ecosystem)
   1. Choose 5 organisms in a group (birds, mammals, wildflowers, invasives, etc)
   2. Create a field guide to help "visitors" distinguish between the organisms, hand draw
3. Issue and Solution
   1. Plastics, trash, litter
   2. Microplastics
   3. Invasive species
   4. Visitors
   5. Runoff
   6. Climate change
      1. Drought
      2. Fires
4. Watershed (importance and management)

**Notes and References**

1. Use any of the materials, activities, explorations, and lessons from the course as references.
2. With approval, use internet resources.
3. Use textbooks or guidebooks provided in the classroom.
4. Create a note page with references listed.
5. You can choose to work alone or with a group of 2 or 3. Groups may not have more than 3 students.

**Visual Display**

Choose ONE of the following:

* Poster
* 3-D model
* Hands-on activity
* Slideshow for website (computer must be left running)
* Movie or animation
* Field Journal- drawings and typed text

**Grading**

| **Area of Assessment** | **Value** | **Your Score** |
| --- | --- | --- |
| Notes | 5 pts |  |
| References | 5 pts |  |

**The FIVE point rubric- for information on each category**

|  |  | Point Value |
| --- | --- | --- |
| **Content** | At least 3 facts/features listed | 3 points |
| **Accuracy** | Information is completely accurate and reflects a good understanding of the material. | 1 point |
| **Detail** | Notes give a full overview of the structures and functions | 1 point |

| **Display** | **Value** | **Your Score** |
| --- | --- | --- |
| Title- clear and bold | 1 |  |
| Organized & Clear evidence  Provides appropriate and sufficient (enough) evidence to support the topic. Includes specific reference to research. | 5 |  |
| Organized & Clear explanation  Provides reasoning that clearly connects the evidence to the topic. Includes appropriate and sufficient scientific principles to explain why the evidence is important or a good solution. Explanation is integrated and clearly shows understanding of the topic. | 5 |  |
| Theme- topic and information support the theme of ecology and conservation of Lake Tahoe (issues, importance, solutions) | 5 |  |
| Neat | 1 |  |
| Easy to Understand | 1 |  |
| Colorful | 1 |  |
| Creative | 1 |  |