

**Name:** Julie Woodruff

**Content Area:** Science

**Grade:** 11th - 12th

I. **Topic of Lesson:** Sustainability

II. **Goal/Objective/Purpose of Lesson:** The purpose of the lesson is to have students identify issues with sustainability on the Earth, and identify possible solutions to

III. **NGSS Standards:**

Sub-Standard	Standard
HS-ESS3-3	The sustainability of human societies and the biodiversity that supports them requires responsible management of natural resources.

IV. **Materials/Technology:** Chromebooks, Paper, pencils, excerpts from Steinbeck's *Log from the Sea of Cortez* and *Cannery Row*.

V. **Activities/Procedures:**

- a. Students will start by reading excerpts from Steinbeck works, especially the frog scene from *Cannery Row*, and the discussion in the *Log from the Sea of Cortez* where Steinbeck claims that either everything matters, or nothing does.
- b. Students will then create the rules for discussion, as per the Mary Adler method.
- c. Once the rules are recorded, students can start to discuss what sustainability is, and what they can do to increase sustainability around them.
- d. Students will pull information from the book *A Log from the Sea of Cortez* to support their ideas, and then use time online to help create a plan to increase awareness about sustainability in the community

VI. **Accommodations/Differentiated Instruction:** An audiobook can be substituted for a physical copy of the book, and students can have small group discussions to ensure that students understand the premise and can discuss.

VII. **Assessment/Evaluation:**

- Student-created plan to increase sustainability in the community, and to increase awareness in the community.