**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:**

<table>
<thead>
<tr>
<th>Sub-Standard</th>
<th>Standard</th>
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<tbody>
<tr>
<td>HS-ESS3-3</td>
<td>The sustainability of human societies and the biodiversity that supports them requires responsible management of natural resources.</td>
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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.