This lesson is a part of the Coral Anatomy unit, which explains some of the characteristics and structures of corals, and how they function. Below is a summary of what is included in the entire unit.

**UNIT CONTENTS**

A. **Background Information**
   - Coral Anatomy
   - Form Fits Function

B. **Lessons**
   - **Watch it! What Are Corals?**
     - A worksheet to accompany the *What Are Corals?* video
   - **Watch it! Form Fits Function**
     - A worksheet to accompany the *Form Fits Function* video

**Interactive Coral Polyp**
- A worksheet to label the structures of a coral polyp and describe their function

**Fitting the Function**
- A crossword puzzle to match the coral structures to their function

**Coral Anatomy Quiz**
- A matching quiz to match the coral structures to their function

**Coral Polyp Eco-Art**
- An art project to design and build a coral polyp using recycled materials

**Form Fits Function**
- A lesson to design a poster of any plant or animal, labeling the parts and their functions

**Read it! Swimming Among Soft Corals**
- A worksheet to accompany the *Swimming Among Soft Corals of the Great Barrier Reef* field blog
OBJECTIVES:
• In your own words describe eco-art.
• Demonstrate understanding of coral polyp anatomy.
• Design and build a coral polyp using recyclable materials.

MATERIALS:
• Recyclable materials
• Scissors
• Sticky notes

ADDITIONAL BACKGROUND INFORMATION:
What is eco-art? **Eco-art** stands for ecological art. There is no one definition for eco-art. Generally, it’s artwork that expresses conservation and education about the environment and helps propose new ways of people co-existing with nature. It can also reveal the environmental problems that we face. Artists use a large range of materials such as found, discarded, recycled, and natural materials.

INSTRUCTIONS:
You just learned about the structures and functions of a coral polyp. This activity will allow you to design and build your own coral polyp out of recyclable materials. Here are the rules:
• You may only construct your coral polyp out of recycled materials. Recyclable materials can include: metal, plastic, glass, paper, cardboard, and Styrofoam.
• You may use glue, tape, clay, or other non-recyclable materials to hold the structures of the coral polyp together.
• You must use a different type of material for each structure.
• Lastly, label the different structures of your coral polyp using sticky notes.

Before you get started, see **Grading Worksheet** for specifications.

Here are the structures that you need to include in your eco-art project:
• Basal plate
• Corallite
• Ectodermis
• Mouth
• Nematocysts
• Oral disk
• Tentacles

Now it’s time to get creative and build a coral polyp!
### GRADING WORKSHEET:

<table>
<thead>
<tr>
<th>Name: ___________________________</th>
<th>Date: _____________________</th>
<th>Score: ________________</th>
</tr>
</thead>
</table>

1. Student included each of the following structures (1 point each):
   - Basal Plate _______
   - Corallite _______
   - Ectodermis _______
   - Mouth _______
   - Nematocysts _______
   - Oral Disk _______
   - Tentacles _______

2. Student correctly labeled each of the following structures (1 point each):
   - Basal Plate _______
   - Corallite _______
   - Ectodermis _______
   - Mouth _______
   - Nematocysts _______
   - Oral Disk _______
   - Tentacles _______

<table>
<thead>
<tr>
<th>CATEGORY</th>
<th>4</th>
<th>3</th>
<th>2</th>
<th>1</th>
<th>SCORE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Use of materials</td>
<td>Uses different materials for each structure.</td>
<td>Uses 5-6 different materials for structures.</td>
<td>Uses 3-4 different materials for structures.</td>
<td>Uses 1-2 different materials for structures.</td>
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</tbody>
</table>

**TOTAL ________/18**