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
• Coralite
• Ectodermis
• Mouth
• Nematocysts
• Oral disk
• Tentacles

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

Name: _______________________________  Date: ____________________  Score: __________________

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 ______

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<th>CATEGORY</th>
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<th>3</th>
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<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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TOTAL _________ /18