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Foundation

## STANDARDS

- **CCSS:** RST.9-10.2, 4, 5, 7, 8, 9, 10; RST.11-12.2, 4, 8, 10; SL.9-10.4; SL.11-12.4
- **NGSS:** HS-LS1-1
- **OLP:** 5.C.22

## ONLINE CONTENTS

- [Coral Anatomy Quiz](#)
- [Coral Anatomy Interactive](#) (at bottom of *Coral Anatomy* section) Use the interactive program to learn and explore more about the anatomy of a stony coral polyp.
- [What Are Corals? Video](#) Corals are animals. An individual coral's body, called a polyp, is mostly stomach, with a mouth on top. Its mouth is ringed with tentacles - but these just aren't any tentacles, they're lined with stinging cells, some filled with venom (neurotoxins) that paralyze their prey.
- [Form Fits Function Video](#) Ever heard the phrase form fits function? It's when the shape of something is designed for the job it is supposed to do. When applied to sea creatures it means their body parts are a good match for their role in the animal's survival.

# CORAL ANATOMY

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](#)

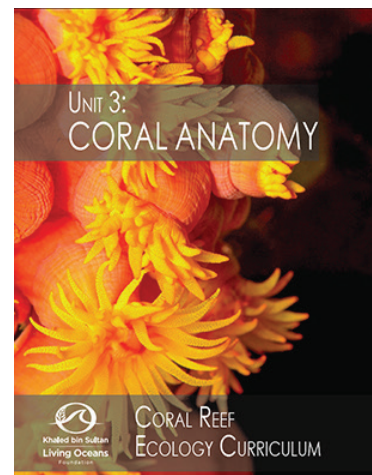
- An art project to design and build a coral polyp using recycled materials

#### [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



# LESSON 1A

# INTERACTIVE CORAL POLYP

### OBJECTIVES:

- Learn the structures of a coral polyp and the corresponding function(s).
- Label the anatomical structures of a coral polyp.

### MATERIALS:

- Computer with internet connection

### INSTRUCTIONS:

1. Go to the *Coral Polyp* interactive at the bottom of the *Coral Anatomy* tab at: <http://www.lof.org/education/portal/course/coral-anatomy/>.
2. Label the coral polyp below to represent the oral and aboral areas.
3. Write the function of each of the coral polyp's structures.
4. Fill in *Diagram 1* with the coral polyp's anatomical terms that are listed in the table below. The only one that will not be used is mucus.

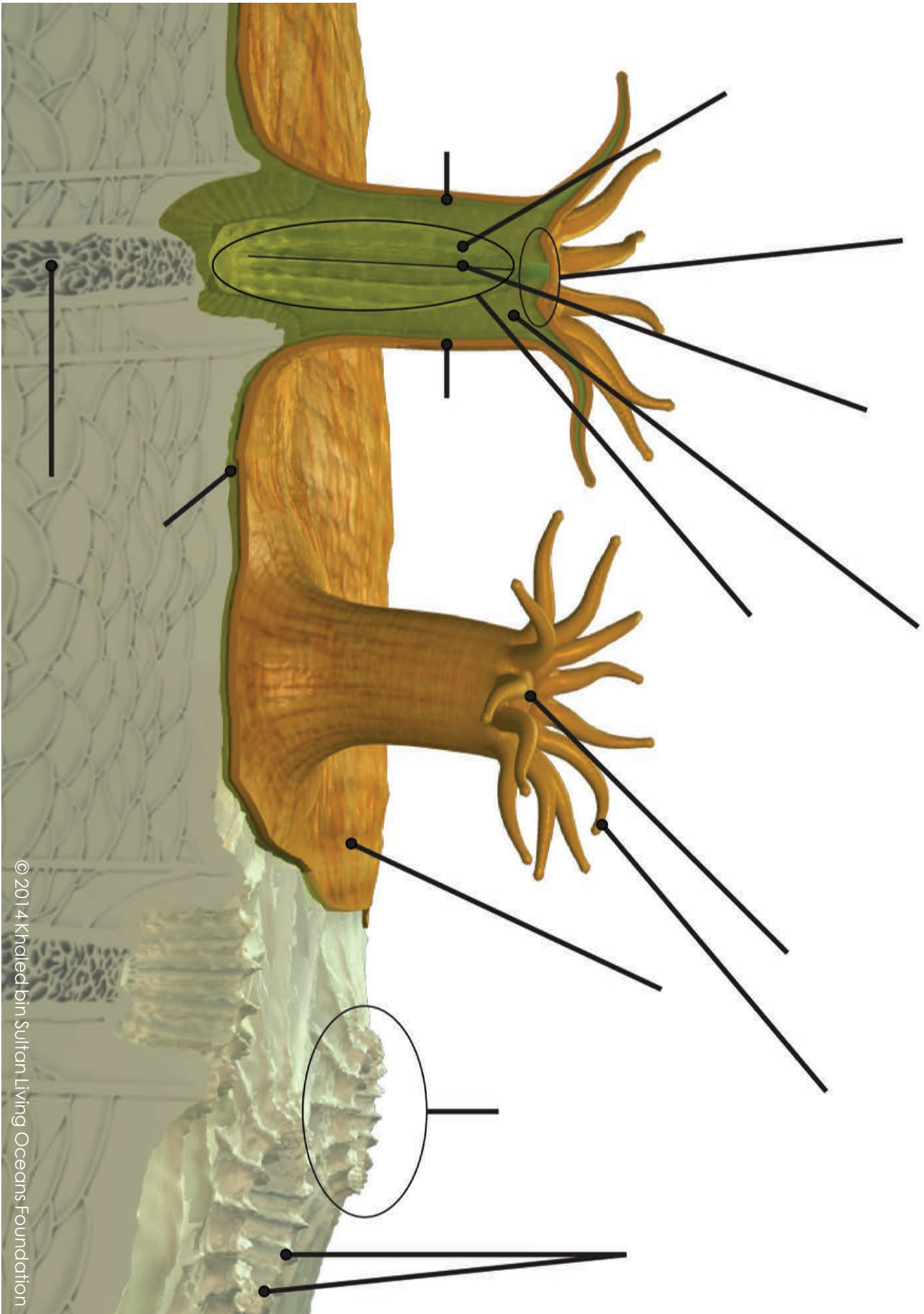


Structure	Function(s)
Basal Disk or Plate	
Coenosarc	
Corallite	
Ectodermis	

Structure	Function(s)
Endoderm	
Gastrodermis	
Gastrovascular Canals	
Gastrovascular Cavity	
Mesenteries	
Mesoglea	
Mouth	
Mucus	
Nematocysts	
Oral Disk	
Septa	
Tentacles	



DIAGRAM 1:



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