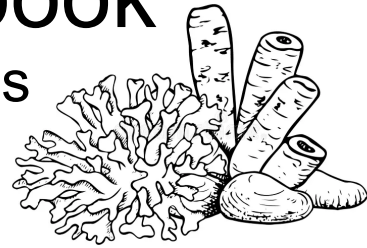


Captivating Corals: Workbook

February Homeschool Day Activities

K-5th Grade



- **Homeschool Day Activity Schedule & Marineland Map**
 - **Page Number:** 2-3

- **Educational Booth Activity:** Bubble Reef
 - **Description:** Learn about coral anatomy, reproduction, and what affects their survival.
 - **Location:** Education Station in Ambassador Park
 - **Page Number:** 4-5

- **Educational Booth Activity:** Coral Conservation
 - **Description:** Build your coral reef and learn how to protect the animal life that calls your reef home.
 - **Location:** Education Station in Whitney Park
 - **Page Number:** 6

- **Guided Educational Activity:** Mock Coral Reef Survey
 - **Description:** Learn how to survey the health of a coral reef by building a reef and watching it change with the impact of multiple human generations.
 - **Times:** 10:15 AM, 11:45 AM, & 1:00 PM
 - **Location:** Meet at Whitney Park Education Booth, this will include walking as a group to one of our classrooms
 - **Page Number:** 7-10

Make sure to see our General Admission Schedule for other talks and tours *not exclusive* to Homeschool Day.

Homeschool Day ONLY Activities

Guided Educational Booth Activities

(Available as a walk up activity from **9:30 AM-2:00PM**)

Bubble Reef

Ambassador Park's
Educational Booth

Coral Conservation

Whitney Park's
Educational Booth

**Guided Scheduled
Activity**

Timeframe

Location

Coral Reef Survey

10:15 AM - 11:00 AM

Coral Reef Survey

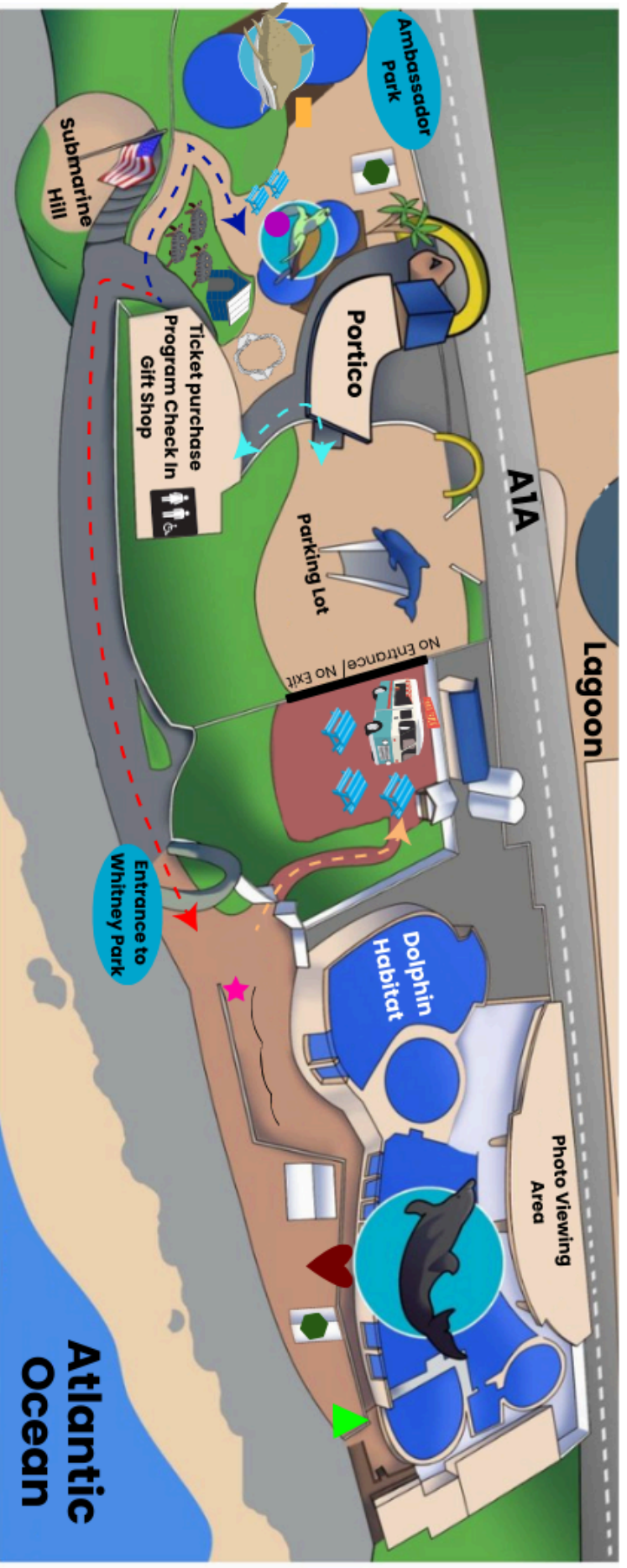
11:45 AM - 12:30 PM

Coral Reef Survey




1:00 PM - 1:45 PM

**Meet at Whitney
Park Education
Booth:** We will be
walking as a group to
one of our classrooms





**Please see our General Admission Schedule for other talks and
tours not exclusive to Homeschool Day**



Things to do in Ambassador Park:

-  10:30 AM: Shark Talk
-  1:00 PM: Turtle Talk
-  Education Station Activities & Ambassador Program

Things to do in Whitney Park:

-  Dolphin Program Pick-Up
-  Dolphin Talk & Program Viewing Area
-  Sea to Shore Aquarium Tour Pick-Up Location
-  Education Station Activities & Ambassador Program

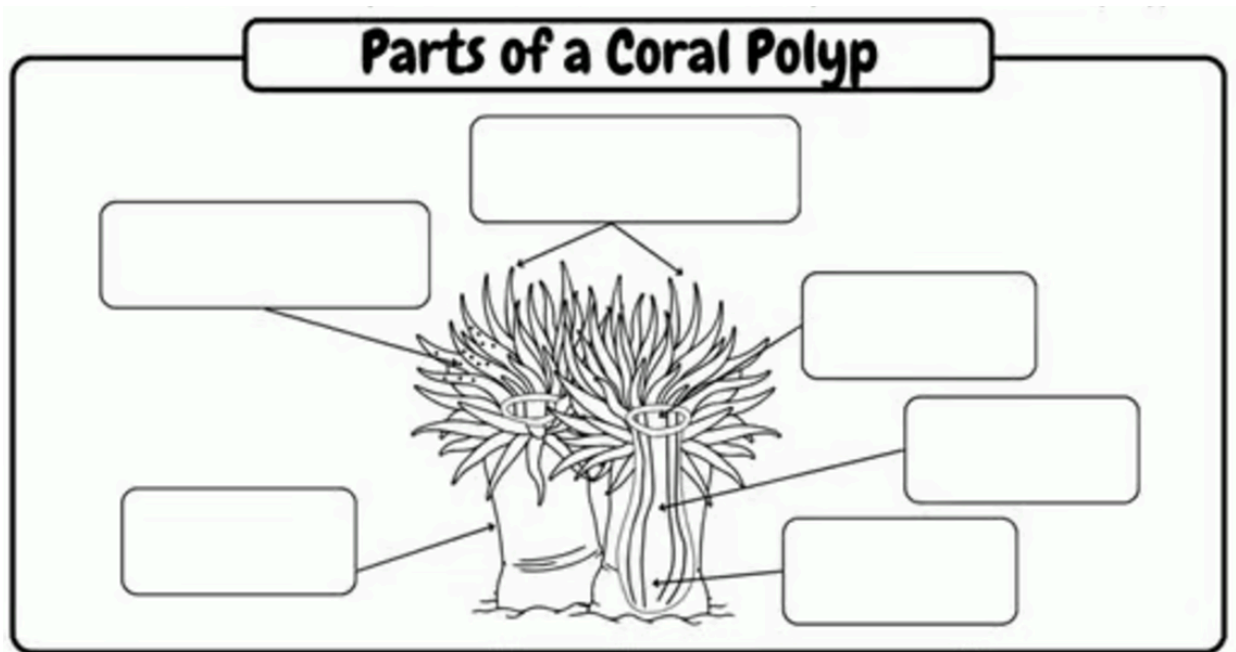
Only Entrance & Exit

Flipperz Food Truck
Food Designated Area of the Facility

No food allowed in Whitney Park for Dolphin Safety

Guided Activity: Bubble Reef

Before we can learn what makes a coral reef, we have to learn what makes a coral! In this short activity, you will learn basic coral polyp anatomy by matching the word bank to the anatomy diagram. Once you have your guesses, try them with an educator on our fabric coral, and match the answer here!



Mouth	Located in the center of the tentacles, used to intake nutrients
Tentacles	Used for defense, capturing food, and to clear debris
Body	Provides structural support
Stomach	Located inside the polyp, used to consume nutrients
Throat	Pathway from mouth to the stomach
Nematocysts	Stinging cells located in the tentacles, are used for defense and to capture food

Guided Activity: Bubble Reef Cont...

A single coral is called a Polyp. One way coral reproduces is by releasing little coral larvae that float through the water and eventually settle on the ocean floor to grow and develop. Throughout this process, there are predators and other factors that can keep the coral larvae from surviving.

In this activity, participants will use bubbles to represent coral larvae and watch as they face predators and other harmful factors.

After participating in the activity, answer the following questions:

1. When you blew the bubbles where did all the corals go?	
2. What happens to the coral if there are too many predators?	
3. What happened to the corals if there were no predators?	
4. What was the best place for the coral larvae to land and grow?	

Guided Activity: Coral Conservation

Coral reefs are some of the most diverse ecosystems in the world! Reefs are very important because they provide safe places for fish to live and hide from bigger predators.

Today you are going to create your own coral reef! While you build your reef, you have to hide a few fish somewhere on your reef to protect them from predators. When you're done building your reef, we will see how many of your fish found a safe hiding spot!

After participating in the activity, answer the following questions:

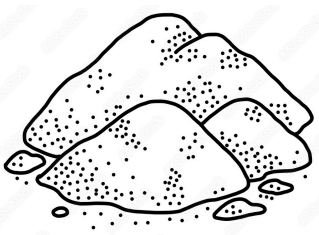
1. How many of your fish found a safe hiding spot?	
2. How did you hide your fish? Ex: Under the reef, with camouflage, etc.	
3. What is one way we can help preserve coral reefs?	

Guided Activity: Mock Coral Reef Survey

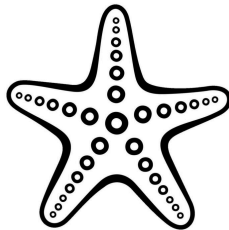
In this guided activity, you will take on the role of a marine biologist surveying a coral reef! These surveys are used to determine the health of coral reefs over time while combating human impact.

But first, let's start thinking about what goes on a coral reef – circle everything that you think belongs on a coral reef!

Sand



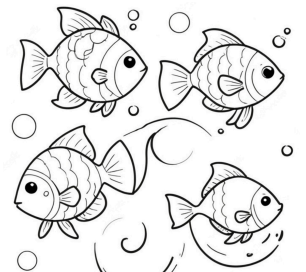
Sea stars



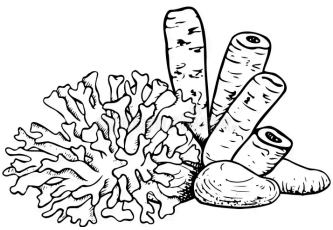
Sea grasses



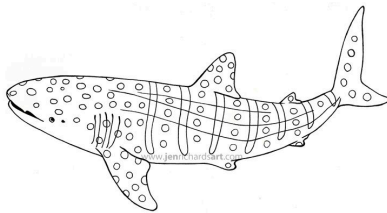
Fish



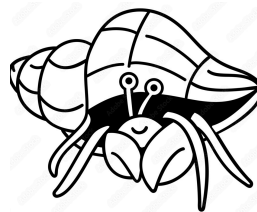
Corals



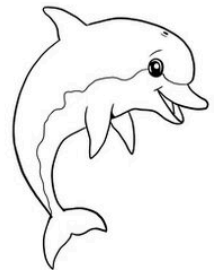
Whale sharks



Hermit crabs



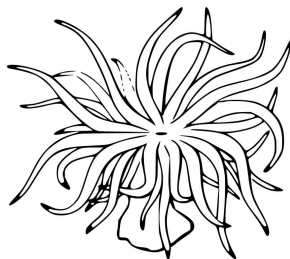
Dolphins



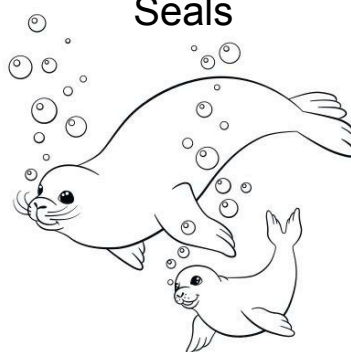
Seahorses



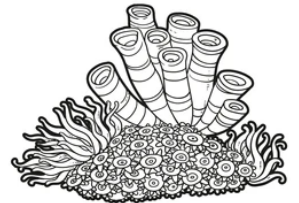
Anemones



Seals



Sea sponges



Guided Activity: Mock Coral Reef Survey

Now that you've completed your coral reef survey, answer the questions below!

1. Do you think we started with a healthy reef?	
2. Did you think humans had this much impact on coral reefs?	
3. What event impacted your reef the most?	
4. What challenges did you face while surveying?	
5. Would it be harder to survey in the real ocean? (Consider that animals are constantly moving around and you cannot step on corals.)	

<p>6. Do you think you truly got a random survey? (Consider subconscious decisions of what areas were chosen.)</p>	
<p>7. What can we do to protect our reefs from the events we saw here?</p>	
<p>8. What is one way we can help protect the ocean in our everyday lives?</p>	