

GEOGRAPHY CLIMATE CHANGE AND BIOGEOGRAPHY FIELDTRIP – **Must attach receipt for credit**

Name\_\_\_\_\_ (staple receipt to exercise)      Date\_\_\_\_\_

**Before you enter: Please describe the physical geographic setting of the aquarium. Is it urban or rural? What plant communities do you see? Are they native or invasive? What is the topography like at this location? What is the elevation?**

Tanks 4 and 5 - Discuss the role of texture, shape and color of the wolf eel, octopus or the red sea urchin . (i.e. how does texture, shape and color of organism assist with camouflage, avoidance of avoid prey, environmental adaptation, etc.).

Tank 5 - What is one of the enrichment toys used to keep the octopus entertained? (use touch-screen monitor to answer this question)\_\_\_\_\_

Tank 5- Is the octopus nocturnal or diurnal? (use touch-screen monitor to answer)\_\_\_\_\_

**GIS Interactive Exhibit** (use touch-screen monitor to answer following questions)

Does tidal flushing reach all the way into the Bay?\_\_\_\_\_

Do you see areas that could become pollution hot spots due to lack of circulation? Where?\_\_\_\_\_

**Jellyfish Tanks**

- 1) How does a jellyfish capture its prey?
- 2) What piece of litter do sharks sometimes consume that look like jellyfish? \_\_\_\_\_
- 3) What is a zooxanthellae and what do they do? (see upside down jellies)

Tank 12 – What is the benthic species shown here and what comprises his habitat?

Tank 15 - California's state marine fish is the \_\_\_\_\_. What color is it?\_\_\_\_\_

**Ocean Relief Exhibit** - What is the benchmark elevation at the bottom of Catalina Basin?\_\_\_\_\_

**Wall Display**- Sea surface temperatures are warmer in the Southern California Bight or the Central Baja Coast? (circle one).

**CLIMATE CHANGE EXHIBIT (other side of aquarium)**

How does ocean sediment and polar ice provide forensic evidence of climate conditions over geologic time?

In the interactive display, "CO2 Sources and Sinks," locate five CO2 sinks. What are they?

How is wind power different from all the other sources and sinks?

**Coral Reef Tanks**

The following two questions are based on the coral reef tanks.

How does the coral reef on the left differ from the one on the right?\_\_\_\_\_

Why are corals called "silent sentinels?"\_\_\_\_\_

How many pounds of CO2 are emitted by an average computer annually (last exhibit)?\_\_\_\_\_

California is the \_\_\_\_\_th largest emitter of CO2 in the world (see last set of exhibits).

What does the leafy sea dragon look like in order to avoid predation? PS It's my favorite marine animal and the one that Dr. Seuss used as a model for many of his animated characters.\_\_\_\_\_

THANKS FOR COMPLETING THIS EXERCISE. DON'T FORGET TO ATTACH YOUR RECEIPT ON THE TOP OR A PICTURE OF YOU AT THE EXHIBIT IF YOU DON'T OBTAIN A RECEIPT!