



# Bay Model Scavenger Hunt - 20 mins



Name: \_\_\_\_\_

Start Time: \_\_\_\_\_

## PART 1: WHAT YOU'RE LOOKING AT

The Bay Model is a massive working hydraulic model of the San Francisco Bay and its surrounding waterways. Built by the U.S. Army Corps of Engineers, it was used to study tides, currents, and how water moves through the region to help with flood control, navigation, and environmental planning. It was originally constructed to test how proposed changes to the Bay—like dams or alterations to waterways—might affect water flow before those decisions were made in the real world. Everything here is scaled—distances, depths, and even the flow of water—so what you're seeing is a miniature version of a very real and dynamic system.



## PART 2: SCAVENGER HUNT

- A major river:  
\_\_\_\_\_
- The narrowest part:  
\_\_\_\_\_
- An island:  
\_\_\_\_\_
- A bridge:  
\_\_\_\_\_
- A wetland or marsh:  
\_\_\_\_\_
- Water splitting into channels:  
\_\_\_\_\_

Bonus: what large animal got stuck far into the Bay in 1990 and what was its name?  
\_\_\_\_\_

## PART 3: SERIOUS QUIZ

1. The tiny waves in the model are:
  - A) Adorable
  - B) Scaled models of tidal energy transfer
  - C) Ripples of misinformation
  - D) Made by mechanical paddles underwater
2. If you dropped a rubber duck in here (please don't), it would:
  - A) Immediately achieve fame
  - B) Turn into a crocodile
  - C) Move according to scaled hydrodynamic flow patterns
  - D) Start a new ecosystem
3. The Bay is most like:
  - A) An estuarine mixing zone influenced by tides and river inflow
  - B) A self-contained basin
  - C) Soup (but don't taste it)
  - D) The Salesforce building
4. What most affects how water moves in the bay:
  - A) Tides
  - B) Tiny earthquakes
  - C) Water temperature
  - D) Bay Area Rapid Transit