

Name: _____ Date: _____ Period: _____

Question: Why did biodiversity increase with the introduction of sea otters in California over the last fifty years?

Directions:

- 1) In the three drawings below, draw what is happening in the ecosystem before and after the introduction of the sea otters. Also, draw a picture of the ecosystem fifty years into the future.
- 2) In the boxes, draw and label the otters and their interactions with different factors (abiotic and biotic) in the ecosystem.
- 3) After drawing your models, use the lines to write an explanation about what is happening at each point in time.
- 4) For each picture, be sure to include the ideas from the **"Gotta Have Checklist"**



Gotta Have Checklist: Include in Every Box

- Show all the interactions the otter has with their environment (biotic and abiotic factors)
- Identify the movement of energy within the system. Use arrows to show relationships.
- Describe how the otter is vital (key) to its svstem.

Provide Evidence: Include in your Descriptions

- Look at the original pictures provided to you. Use them as evidence when describing the interactions in your writing sections for each box.

Box A: No Sea Otters Present in California's Waters

Box B: Sea Otters Present in California's Waters

Box C: Sea Otters Present in California's Waters Fifty Years from Now
