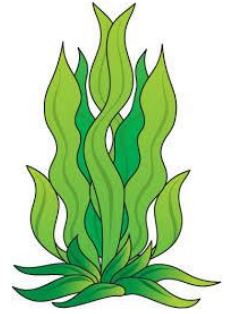


Name: \_\_\_\_\_ Date: \_\_\_\_\_ Period: \_\_\_\_\_

**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 your original model. How has your thinking changed over time? Are there any ideas you have added or removed from your model?
- Pick one class activity in which you collected data that supports a change in your thinking.

**Box A: No Sea Otters Present in California’s Waters**

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**Box B: Sea Otters Present in California’s Waters**

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

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