**The Sea Bird Mystery**

**Student Worksheet**

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

**Solve the Sea Bird Mystery**

1. What is the species of alcid flock of seabirds that appears to have washed up onto this Tillamook, Oregon beach? Cite evidence from the story, the data, and from the bird photos to support your argument.

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**Draw two Food Webs to demonstrate the difference between the effects Hot Blob abnormal ocean conditions and normal ocean conditions. The Seabird will be the top of the Food Web.**

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| --- | --- |
| **Pacific Coastal Ocean Water with the Hot Blob** | **Normal Pacific Coastal Ocean Water** |
| **\_\_\_\_\_\_\_\_\_\_\_\_\_\_Seabird** | **\_\_\_\_\_\_\_\_\_\_\_\_ Seabird** |

1. Describe the normal food chain for these birds with normal ocean conditions.

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1. What part of the food chain has been disrupted by the presence of the Hot Blob?

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**Partner with another student and together answer questions 4, 5, and 6.**

1. What could be a likely cause of death of these birds? Why do you think so? Cite evidence from the data and from the story to support your argument.

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1. Predict what you think would be the short term (one year) and the long term (5 years) results of returning normal ocean temperatures on the Pacific Coast and the Mystery Seabird population. Why do you think so? Cite evidence from the data given to support your answer.

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1. Do you think that this type of sea bird die-off could be happening in other parts of the world other than Pacific Northwest coastal areas? Explain your thinking.

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Use what you know about systems and your Food Web to fill in the Systems Analysis Graphic Organizer

(Optional)

System Analysis of the Ocean Habitat for the Mystery Sea Bird:

Energy Input: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Matter input: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Energy output: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Matter output: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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