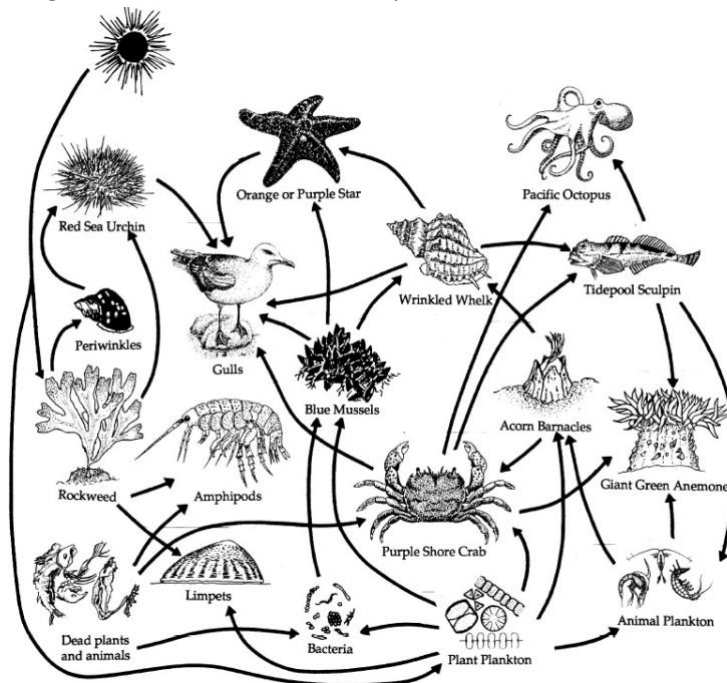


Sea Floor Graveyard - Student Worksheet #4

Hypoxia - Effects on the Ecosystem

Explain hypoxia and ecosystem impacts.

1. Examine the diagram below and answer the questions.



[Image Source](#)

- Define the terms biotic and abiotic. _____

- The diagram shows the sun - an abiotic factor. Name one additional abiotic factor that would be present in the ecosystem depicted in the diagram.

- Predict what you think might happen to the ecosystem if the Purple Shore Crab experienced an unexpected die-off.

- Do you think the Gulls might be impacted if there was a hypoxia event that affected this ecosystem? Explain your reasoning. _____

- Explain how the data collected by OOI helps us understand this ecosystem better.

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2. Watch this video about [hypoxia and dead zones](#) on the Oregon Coast. Describe how upwelling can contribute to dead zones forming.

3. Provide one piece of evidence from the above video that supports this claim: Dead zone events were not always happening on the Oregon coast.

4. Read about [Hypoxia off the Pacific Northwest Coast](#) and explain what scientists believe is causing the hypoxia events. Support your answer with evidence from the text.

5. Demonstrate your learning. Create a scene that depicts the cause and effects of a hypoxia event on the ecosystem. Use words and images to help show your understanding.

