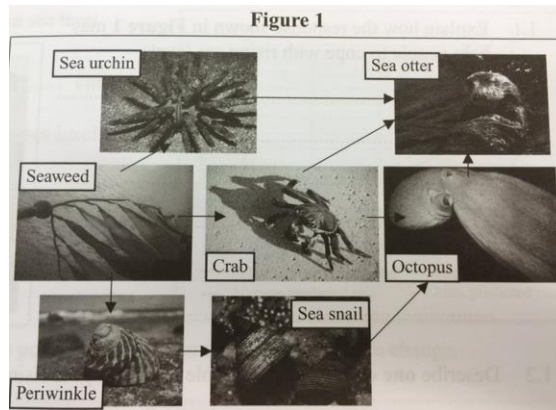


# Ecosystems Homework 1

Study Figure 1, which shows part of a food web for a coastal ecosystem



- 1) Which of the organisms in the food web shown is the producer? (1)
  - a) Sea otter
  - b) Crab
  - c) Sea Snail
  - d) Sea Weed

2) Give one example of a consumer from the food web shown in figure 1 (2)

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3) Using figure 1, explain how the population of octopuses and seaweed in this ecosystem might be affected if a disease reduced the crab population (2)

Octopuses

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Seaweed

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4) Using figure 1, explain how the organisms in the food web might be affected if more sea otters were introduced into the area (3)

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5) Describe how nutrients are cycled in a land- based ecosystem (4) –  
*hint – describe the nutrient cycle)*

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