**CB9 Revision Mat**

Biotic factors and communities

State what biotic factors are

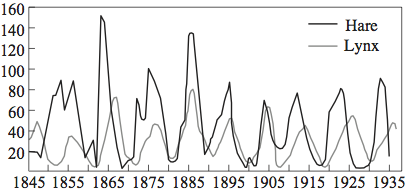
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Name some biotic factors organisms will compete for

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Describe how introducing a predator can affect a community

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Identify the predator ……………………………………………………………

Identify the prey …………………………………………………………………….

Explain your answers

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Ecosystems

Define community

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Define population

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Define habitat

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Describe how to use quadrats to estimate a population size

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In a 1m2 quadrat on a rocky shore there are 25 limpets. The total area is 500m2.

Estimate the total population size of limpets

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Describe how organisms in a rainforest are interdependent

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Abiotic factors and communities

State what abiotic factors are

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List examples of abiotic factors

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Describe how one abiotic factor would differ moving **away** from a tree

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Describe how a belt transect can be used to investigate the effect of abiotic factors on organisms

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Explain the effects of drought on an ecosystem

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The water cycle

Describe how water is cycled in the water cycle

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Describe the process of desalination

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Preserving biodiversity

Describe what reforestation is

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Describe what conservation is

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Explain why endangered organisms are being kept in captivity.

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Biodiversity and humans

Explain the advantages of fish farming

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Explain the disadvantages of fish farming

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Describe the difference between indigenous and non-indigenous

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Describe how the overuse of fertilisers in a field nearby can cause fish in the lake to die

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Parasitism and mutualism

Define parasitism

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Explain how a tapeworm is adapted to living inside its hosts

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Explain how headlice are adapted to living on hair and skin

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Define mutualism

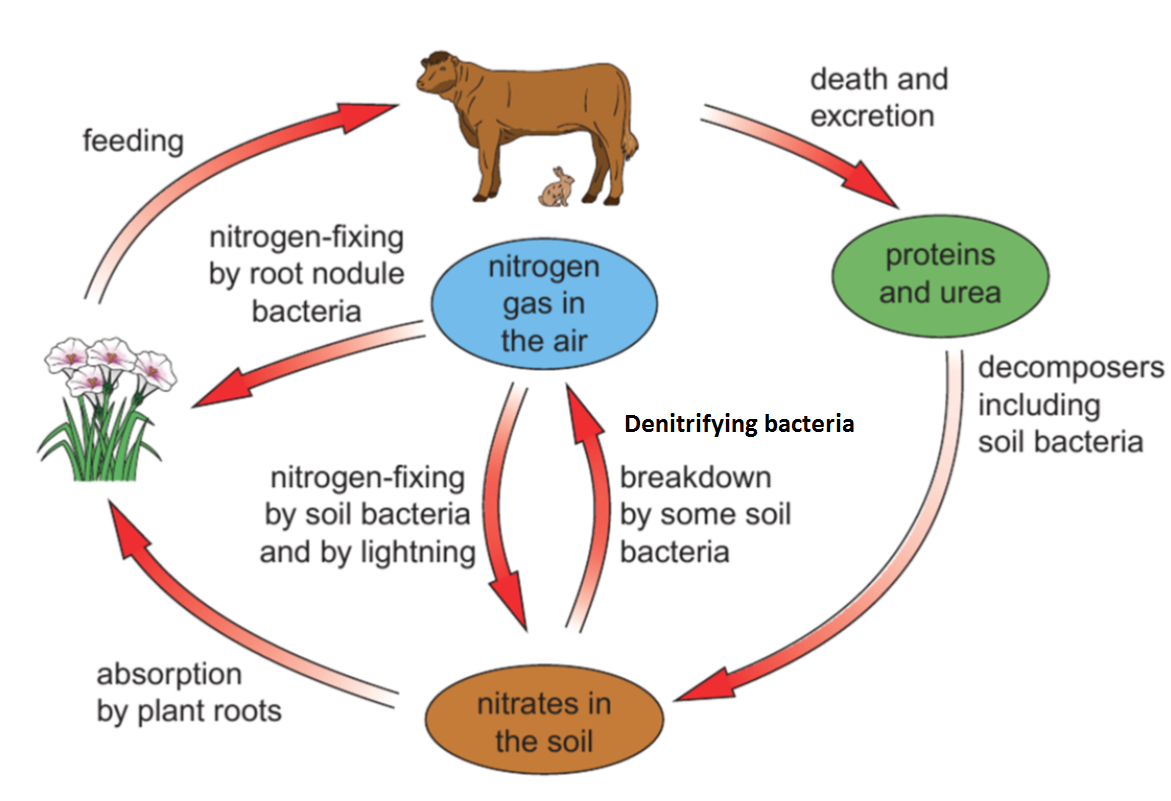
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Tube worms live near hydrothermal vents. Tube worms and chemosynthetic bacteria have a mutualistic relationship. Explain how.



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The nitrogen cycle



State what nitrates are needed for in plants

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Explain the role of bacteria in producing nitrates available to plants

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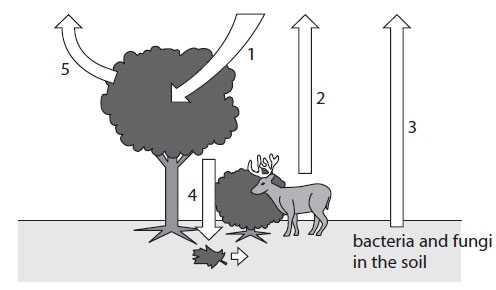
Explain how crop rotation can ensure levels of nitrates in the soil remain high

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Describe how nitrates in plants are cycled to become nitrates in the soil

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The carbon cycle



Identify processes that increase levels of carbon dioxide in the atmosphere

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Identify processes that decrease levels of carbon dioxide in the atmosphere

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Describe the role of decomposers in the carbon cycle

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Explain the effect on the carbon cycle with an increasing population

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