



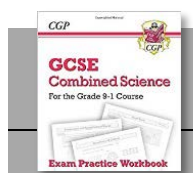
### Step 1 What do I need to know?

- Understand the key terms associated with ecology
- Understand what factors both plants and animals compete for
- Understand the knock on effect a change in population of an organism causes for the rest of the food web.

### Step 2 How do I find out about it?

Revision Guide Page		Web Links
		 <a href="#">Interdependence</a>   <a href="#">Interdependence</a>
Higher	Pg. 83-86	
Foundation	Pg. 83-86	
Triple Biology	Pg. 106-109	

### Step 3 What can I do to help me learn it?



Complete the relevant questions in your CGP Science Workbook

Higher	Pages 78-82
Foundation	Pages 69-72
Triple Biology	Pages 105-109

**TASK 1-** Define the following words;

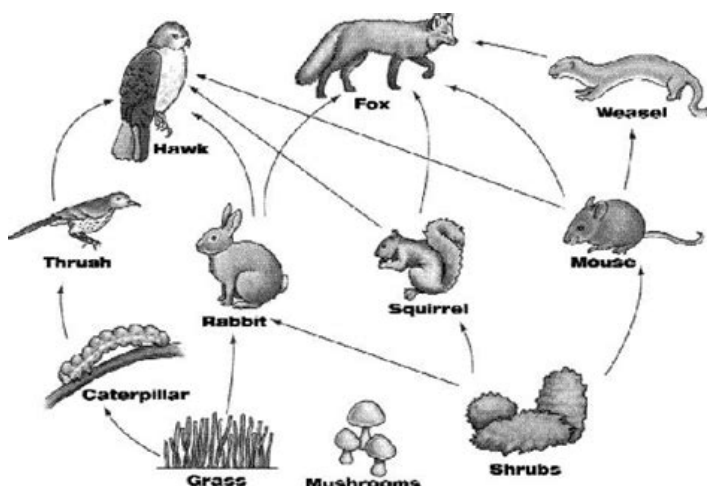
Habitat/Population/Community/Abiotic/Biotic/Ecosystem

**TASK 2-**

- State all the resources plants compete for.
- State all the resources animals compete for.
- State which of these factors are biotic and which are abiotic.

**Task 3-** A virus is causing the decrease in the population of squirrels. Suggest the outcome for the following.

- What may happen to the population of; hawks, mouse and shrubs
- How might a introduced apex predator affect this food chain.

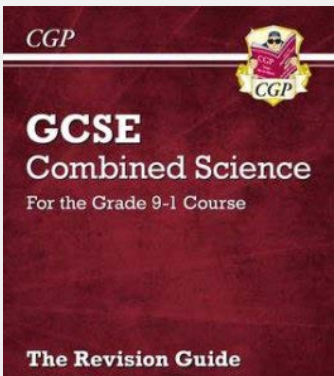






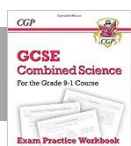
### Step 1 What do I need to know?

- Describe how to use a quadrat
- Estimate numbers of species using collect data of average number of organisms and area of sampling
- Describe the difference between quadrat and transect sampling
- Identify the limitations of both methods of sampling

### Step 2 How do I find out about it?

Revision Guide Page		Web Links
		 <a href="#">Experimental methods using quadrats and transects</a>   <a href="#">Required Practical Sampling using quadrats and transect</a>
Higher	Pg. 87-88	
Foundation	Pg. 87-88	

### Step 3 What can I do to help me learn it?



Complete the relevant questions in your CGP Science Workbook

Higher

Pages 83-84

Foundation

Pages 73-74

**TASK 1-** Write a method for using a Quadrat to estimate the number of daisies in a field.

**TASK 2-** Explain why estimating the population of an organism using a quadrat may not be a true estimate of the population.

**TASK 3-** Describing how sampling using a transect will allow the show the effect of abiotic factors on different species.

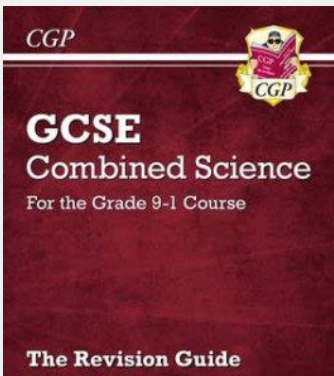


**TASK 4-** Describe a method for sampling the different seaweeds that grown on a rocky beach



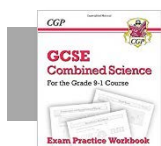
### Step 1 What do I need to know?

- Explain the importance of the carbon and water cycles to living organisms.
- All materials in the living world are recycled to provide the building blocks for future organisms.
- Explain the role of microorganisms in cycling materials through an ecosystem
- Give reasons as to why it is important we don't pollute water sources

### Step 2 How do I find out about it?

Revision Guide Page		Web Links
		  <a href="#">Carbon Cycle</a> <a href="#">Water Cycle</a>   <a href="#">Carbon Cycle</a> <a href="#">Water Cycle</a>
Higher	Pg. 89-90	
Foundation	Pg. 89-90	

### Step 3 What can I do to help me learn it?



Complete the relevant questions in your CGP Science Workbook

Higher

Pages 85-86

Foundation

Pages 75-76

**TASK 1-** Describe how living things are involved in the constant cycling of carbon.

**TASK 2-** Draw and Label the carbon cycle showing how carbon from the atmosphere as Carbon dioxide enters the cycle and how it is returned to the atmosphere.

**TASK 3-** Draw and label a diagram of the water cycle and describe all the processes.

**TASK 4-** Describe using your knowledge of the carbon cycle how plants and animals survive in a sealed biosphere.