

Edexcel (A) Biology A-level

CP10 - Ecology of a habitat

Flashcards

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List 3 abiotic factors.



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Light intensity

Humidity

Temperature

Wind speed

Water supply

Day length

Nutrient supply

Rainfall



List 3 biotic factors.



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Competition for resources

Predation

Disease



How is percentage cover calculated?



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Use a quadrat with squares. Count how many squares the required species is present in. Only count a square if more than half of the square is covered.



Outline the procedure to this practical.



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1. Choose an area to take samples from. Use a random number generator to generate 10 sets of random coordinates.
2. Use two tape measures to create a set of axes off which coordinates can be read.
3. Place the quadrat at each of the coordinates, placing the bottom left corner on the coordinate every time.
4. Record the percentage cover for the chosen species.
5. At each coordinate, a measure of the independent variable should be taken.
Eg. record light intensity using a photometer at each location



How can the results be used to determine the relationship between the chosen factor and the percentage cover?



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Use a statistical test eg. Pearson's linear correlation, Spearman's rank

