

# WJEC England Biology

## A-level

### SP C2 01 - Biodiversity

#### Flashcards

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Outline the procedure of sampling of ground flora.



## Outline the procedure to this practical.

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 number of individuals belonging to each species.
5. Repeat steps 1-4 at another site with a different environmental factor eg. mowed vs. unmowed grass



# State Simpson's Index of Biodiversity.



State Simpson's Index of Biodiversity.

$$D = 1 - [(n / N)^2]$$



# What is species richness?



## What is species richness?

The number of different species in a community.



# What is species evenness?





## What is species evenness?

The relative abundance of individuals of different species.



Outline the procedure of sampling invertebrates.



## Outline the procedure of sampling invertebrates.

1. Mark an area with a quadrat
2. Place a net in the water held downstream of the quadrat.
3. Agitate the stream bed and 'kick' for a few minutes to sweep up some invertebrates.
4. Place the catch in a shallow white tray with 2 cm depth of fresh water from the stream or river.
5. Count the number of individuals of each species.
6. Return the animals into the stream.
7. Repeat for a total of 10 quadrats.



State a hazard and safety precaution of this practical.



State a hazard and safety precaution of this practical.

Certain plants may cause allergic reactions, avoid touching specimens and wear gloves if necessary.

