

WJEC England Biology GCSE

SP6.3: Field investigation

Practical notes









Field investigation

Aim

Investigation into factors affecting the abundance and distribution of a species.

Equipment

- Frame quadrat (25 cm by 25 cm)
- Tape measures
- Clipboard
- Pen
- Paper

Method

- 1. Use a random number generator to obtain 2 numbers, which are to be used as coordinates to find a location on the 2 tape measures set up at right angles.
- 2. Set down the quadrat at the coordinates.
- 3. Count and record the number of the required plant species in the quadrat.
- 4. Repeat steps 1-3 to take 24 more samples.
- 5. Estimate the population size using this formula: total area / sampled area x total number in sample
- 6. Repeat steps 1-6 at a different time of the year, or at another site with a different environmental factor (eg. grazed vs ungrazed land).

Risk assessment

Certain plants may cause allergic reactions and cause stings, wear gloves when handling.



