

KS4 Field Studies Classroom activity pack

This pack contains a series of activities for you to complete with your class both before and after your visit to Kew.

You may choose to do all of the activities or just select one. Post-visit activities are intended to build on the learning from the educational session at Kew. Many of the resources can be used on a whiteboard or can be printed.



Thank you for booking the Field Studies education session at Kew. You can use the pre-visit activity to support your students' learning.

Ahead of your visit, your students could answer the question below. They can tell us about their answers when they come to Kew.

 **Question:** What is ecology and why is it important?

You could encourage students to use the key vocabulary on the following page.



? What is ecology and why is it important?

Try and use some of the key vocabulary in your answer:

species richness

ecology

environment

biotic

distribution

diversity

abiotic

ecosystem



Post-visit teacher notes

KS4 Field Studies

Thank you for bringing your students to Kew.

We hope that the teaching session assisted in developing the skills and knowledge of your students and provided them with an insight into the amazing plants and plant science at Kew.

Following your visit, you can use the post-visit activity to further support your students' learning.



Post-visit
student
activity

? What conditions in an ecosystem might affect a population?

How could these be measured?

Try to use some of this vocabulary in your answer.

Species richness

abundance

random

biotic

competition

abiotic

systematic

stratified



Read the following scenarios and decide which sampling strategy should be used:

An ecologist wants to investigate the relationship between percentage ground cover of plants and location along a hill gradient.

An ecologist wants to investigate the species richness of two different woodland areas.

An ecologist wants to investigate vegetation cover of a heathland that is 60% heather and 40% gorse.



Check your answers!

An ecologist wants to investigate the relationship between percentage ground cover of plants and location along a hill gradient.

Systematic Sampling

An ecologist wants to investigate the species richness of two different woodland areas.

Random Sampling

An ecologist wants to investigate vegetation cover of a heathland that is 60% heather and 40% gorse.

Stratified Sampling

