

Timing: 1 hour

# Interdependence and pollination

level: KS3



**Aim – to understand how communities of organisms are interdependent on each other through processes such as pollination, and how humans rely on this.**

## Learning objectives

- \* Examples of interdependence in nature.
- \* How humans and pollinators are interdependent on each other.
- \* Practical examples of these around school.

## Learning outcomes

- \* All students will be able to define interdependence and give examples.
- \* All students will be able to explain how humans are dependent on pollinators.
- \* Most students will be able to analyse the impact of change in an interdependent system.

## National Curriculum links

### Interactions and interdependencies

Relationships in an ecosystem:

- \* the interdependence of organisms in an ecosystem, including food webs and **insect pollinated crops**.
- \* the importance of plant reproduction through **insect pollination** in human food security.

## Previous knowledge expected from students

Basic understanding of parts of a plant and their functions.

## Key words/concepts

Interdependence, pollination, food security, pollinator, ecosystem.



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## Session outline

### Starter (five to 10 minutes)

PowerPoint presentation prompts and discussion:

- \* Recap on what pollinators are.
- \* Brainstorm how humans rely on nature.

#### Assessment

Whole class questioning.

#### Resources

PowerPoint presentation.

### Interdependence and food security

- \* Definition of interdependence.
- \* Short video on how we rely on pollinators.
- \* Questions on PowerPoint with pair feedback.

#### Assessment

Pair work feedback.

#### Resources

PowerPoint presentation.

### Interdependence activity worksheet (20 minutes+)

Take the class to an area of the school where there are some plants/trees/flowers. Give them an activity sheet to complete.

#### Assessment

Discussion in classroom.

#### Resources

Interdependence activity sheet, clipboards, pencils.

### Return to the classroom

### Plenary (five to 15 minutes)

Discussion of what was found, sharing of interdependence sketches – can be done on whiteboard.

Description of life without pollinators activity on PowerPoint.

### Key health and safety points

- \* Talk to children about how to be safe around bees and wasps.
- \* Set clear boundaries for where they can go.

### Extensions work

Challenges provided on slides and worksheet.

### Further work (post session)

Complete an official pollinator survey e.g. <https://ukpoms.org.uk>

