

**Session type:** Workshop

**Duration:** 60 minutes

**Key Stage:** KS3

**Main Curriculum Link:**

- Science: Biology – Interactions and interdependencies

**Secondary Curriculum Links:**

- Science: Biology – Material cycles and energy
  - Science: Biology – Genetics and evolution
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## Session Overview

This workshop introduces groups to classification and food webs through careful observations of animals that may or may not be familiar to the students. By noticing key features and traits shared by different animals and by seeing the differences between them, the groups will be able to see all the ways of grouping animals together. Through discussions, the students will be able to draw conclusions about the best ways of classifying species, including genetic differences.

Following this section of the workshops, the group will be able to see how all these different species are interdependent through an investigation of food webs. They will discover how land and marine food webs are different but also, how they are connected.

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## National Curriculum Links

### **Key Stage 3 Science: Biology – Interactions and interdependencies**

- Relationships in an ecosystem
  - The interdependence of organisms in an ecosystem, including food webs and insect pollinated crops
  - How organisms affect, and are affected by, their environment, including the accumulation of toxic materials

### **Key Stage 3 Science: Biology – Material cycles and energy**

- Photosynthesis
  - The dependence of almost all life on Earth on the ability of photosynthetic organisms, such as plants and algae, to use sunlight in photosynthesis to build organic molecules that are an essential energy store and to maintain levels of oxygen and carbon dioxide in the atmosphere

### **Key Stage 3 Science - Biology: Genetics and evolution**

- Inheritance, chromosomes, DNA and genes
  - Heredity as the process by which genetic information is transmitted from one generation to the next
  - Differences between species

**To book, or for more information:**

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- Changes in the environment may leave individuals within a species, and some entire species, less well adapted to compete successfully and reproduce, which in turn may lead to extinction
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## Learning Outcomes

After this session, the groups should be able to:

- Describe the animal they focused on in the session and list its key identifying features. They should be able to say what vertebrate group it fitted into in the session and know its trophic level
  - Explain why we classify animals and what features we can use to do this. Using visible features vs genetic features
  - Talk about the food web the group created and what would happen if you removed any of the animals from it.
  - State where humans fit in the food web and how they can disrupt or add to it.
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## Pre-Visit Suggestions

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## Post-Visit Suggestions

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