

Sets (s):

YEAR 8

SUBJECT Science

Knowledge Focus: Adaptations, competitions and food chains



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This half term : Skills, Knowledge and Understanding to be developed:

Students will describe adaptations of different animals/plants and will identify adaptations found in predators and prey. Students will investigate different habitats, explaining why particular species are able to live there and carry out a practical task to find the best habitat for woodlice. Students will learn about competition between plants and animals. Carry out sampling experiments to estimate the numbers of daisies in a field and produce food chains and webs to show feeding relationships.

Key Terms to be learned this half term:

adaptation, predator, prey, habitat, choice chamber, variables

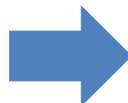
Week 1 and 2 Learning Objectives etc:

Learn what is a habitat and how the conditions are affected by physical environmental factors ES77Ca.

Compare different habitats, exploring the reasons for the range of species that live there.

Plan an investigation to find the best habitat for woodlice.

Carry out an investigation to find the best habitat for woodlice and analyse the results.



Objective assessments:

ICT :Research different habitats

APP plan choice chamber investigation

Analysis of experiment.

Homework:

Choose a habitat, give a description of that habitat and find out what animals and plants live there.7Ca(3) Habitats

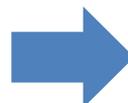
Week 3 and 4 Learning Objectives etc:

Explore how organisms (plants and animals) are adapted to daily and seasonal changes and where they live 7Cb and 7Cc.

Describe how adaptations help organisms survive, using specific examples.

Learn how predators and prey are adapted to finding food and feeding.

Investigate a specific predator and their prey, describing and explaining adaptations that help them survive. Look at a predator prey graph.



Objective assessments:

Use of key words and terms to describe and explain adaptations.

Interpret a predator prey graph.

Homework:

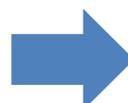
7Cb(4)
Adaptations for survival

Week 5 and 6 Learning Objectives etc:

Learn what competition is and what some animals & plants might compete for.

Use a quadrat to investigate the number of daisies in the school field.

Learn what are foodchains and webs and how to draw them from information given.



Objective assessments:

Calculation of daisies from data collected.

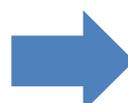
Explanation of changes in food chains.

Homework:

7Ce(5) food chains and webs

Week 7 Learning Objectives etc:

Draw pyramid of numbers from food chains.



Objective assessments:

Homework: