

# Year 3/4 Science

(complete this work over 2 sessions)

LO: To understand adaptation

## Direct Instruction

In this lesson, we will be learning about adaptations. We will be looking at the conditions in different environments and the characteristics that animals have that help them to survive. We are then going to design our own creatures that are adapted to an environment!

For this lesson you will need:

- Your home learning book OR a print out of this sheet.
- A writing pencil
- Some colouring pens or pencils
- A ruler

Before you start your learning, look for the definition of the word 'adaptation' in a dictionary or online. Write the definition below or in your home learning book.

Adaptation - the characteristic of an organism that helps it to survive/ the process of change by which an organism or species becomes better suited to its environment.

To start the lesson follow the link below:

<https://classroom.thenationalacademy/lessons/what-is-an-adaptation>

## **Introductory Quiz**

This quiz will help you to check any previous learning on this topic, and re-cap anything you may have forgotten. Once you have completed this, click 'Close Quiz' and then 'Next' below.

Start Quiz

You will start with a short quiz to see what prior knowledge you have! Good luck!

## Guided Practice

Look at the image on the video of the pond environment. In the box below write a list of all the words you can think of to describe this environment.

Water in the pond

Insects lining in the long grass

Fish in the pond

Trees

Long grass

Rushes

Look at the desert environment and write the differences between this environment and the pond environment in the box below.

Sandy	No plants
Very hot and dry	No/ very little water
Different colours	Different animals and food sources

Look at the arctic environment and write three conditions in this environment in the box below.

Cold	White
Lots of water	Snow and ice
Fish in the sea	Not many plants
Predators such as Polar Bears, seals and whales.	

Which of these two living things is most likely to survive in the Arctic? Write your answer below.

**Polar bear**



**Tree frog**



Which of these two living things is most likely to survive in the Arctic? Write your answer below.

Polar Bear

Write a list of the characteristics to explain why this living creature is most likely to survive in the Arctic:

- Thick fur to keep warm
- White fur
- Able to swim
- Sharp teeth and claws

Look at the image of the lioness. Jot down which characteristic is NOT an adaptation:

Soft ears

Look at the image of the red kite. Jot down which characteristic is NOT an adaptation:

Yellow beak

### Independent Practice

You are going to design your own organism. Follow these steps as explained in the video:

- Step 1 - Choose your environment (jot this down if it helps you)
- Step 2 - List the conditions of the environment.

Rule off a section down the left-hand side of your paper and use a PENCIL to draw and label your environment. Once you have finished your drawing/ diagram. Write the conditions of the environment in the column you have created on the left-hand side.

Step 3 - Choose an adaptation that would help your organism to survive in each condition. List the adaptations in the column on the left-hand side.

Step 4 - Draw your organism and add labels. Practice first on a separate sheet of paper! When you are happy with your organism, draw it onto your sheet in the environment. Label your organism.

*It would be really lovely to see some of your creations. Try scanning them in or taking a photo and send them to your teacher in Microsoft Teams!*