

7.1.4 Adaptations

AQA GCSE Biology (Higher) Question and answer notes

For more resources, visit www.mooramo.com

How to use these notes

These notes cover everything you need to know for this part of the specification. They have been written in question-answer format to make them easier for you to study from.

In order to study successfully, I recommend you do the following for each question and answer:

- Read it carefully and make sure you **understand** it.
- **Memorise** the answer.
- **Practice** applying your understanding to past exam questions.

A good way to memorise information is to use **retrieval practice**. This is when you practise retrieving information from your memory. You could do this by making a flashcard for each question with the question on one side and the answer on the other. Or you could use a flashcard app. Alternatively, use a sheet of paper to cover up the answer so you can only see the question. Try to answer the question and then check how you did.

You should practise retrieving each answer from your memory until you can do it perfectly. Even once you can retrieve the answer perfectly, your ability to retrieve it will probably fade as time passes without practising. Therefore you will need to keep going back to the questions that you have previously mastered and practising them again. However, each time you re-learn the answer, the memory will be stronger and will last longer than the time before.

What are adaptations?

Adaptations are features that organisms have that enable them to survive and reproduce in the conditions that they normally live in.

What are the main types of adaptations?

The main types of adaptations are:

- Structural adaptations
- Behavioural adaptations
- Functional adaptations

What are structural adaptations?

Structural adaptations are adaptations that involve the physical structure of the organism.

What are functional adaptations?

Functional adaptations are adaptations that involve the processes that take place within the organism.

What are behavioural adaptations?

Behavioural adaptations are adaptations that involve the organism's behaviour.

What are organisms that live in extreme environments called?

Organisms that live in extreme environments are called extremophiles.

What are some examples of conditions that extremophiles live in?

Examples of conditions that extremophiles live in include:

- High temperature
- High pressure
- High salt concentration

What is one example of an extremophile?

One example of an extremophile is bacteria that live in deep sea vents