

Autumn 2

Year 11 B14 Genetics and evolution

Aiming for Grade 6 (Combined)

Extended Homework Assignment

Name: _____

Set: _____

Instructions

A printed copy should be handed into your teacher.

The knowledge required to complete this assignment will be supported in class in lessons of the half term.



OLD BUCKENHAM
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B14 Genetics and evolution – Aiming for Grade 6

Aims

The aim of this homework is to help you revise the main topics in this Chapter 14, Genetics and evolution.

Learning outcomes

After completing this activity, you should be able to:

- describe some causes of extinction
- explain how antibiotic resistance develops in bacteria.

Task

There are two activities to complete. Both activities will help you to revise different material from Chapter B14, *Genetics and evolution*.

Activity 1 – Fossils and extinction

You will be answering questions on fossils and extinction.

Activity 2 – Antibiotic resistance

You will be drawing a **flowchart** to explain how antibiotic resistance develops in bacteria and stating some ways to avoid antibiotic resistance developing.

Activities:

1 Fossils and extinction

Answer these questions about fossil and extinction. You can use your notes and the internet to help you.

a Describe how fossils form.

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b Give reasons why we do not have a complete fossil record.

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c Describe some reasons why a species might become extinct.

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2 Antibiotic resistance

a Use your notes and the internet to help you draw a **flowchart** to describe how antibiotic resistance develops in bacteria. You can draw diagrams to help your description.

b i Describe and explain ways we can avoid the development of antibiotic resistance.

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ii Write down ways we can reduce the spread of antibiotic resistant bacteria such as MRSA (Methicillin-resistant *Staphylococcus aureus*).

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