BIOLOGY YEAR 11 - MODULE 3 - LESSON 11

Types of Natural Selection

Use this worksheet after reading the lesson to practise the key ideas and prove you can meet the success criteria.

Name _____

Date _____

Class _____

1. Key Ideas

Once we know allele frequencies can change, the next question is what pattern that change takes. This lesson explains how directional, stabilising and disruptive selection shape phenotype distributions and why reading bell curves matters for understanding real evolutionary outcomes.

- Key facts and definitions for Types of Natural Selection
- The concepts and principles underlying Types of Natural Selection

2. Success Criteria

By the end, you should be able to:

- Key facts and definitions for Types of Natural Selection
- Relevant terminology and conventions
- The concepts and principles underlying Types of Natural Selection

3. Key Terms

both extremes
favoured and the middle is selected against, what might that mean for future divergence or even speciation?

Understanding how systems interact
essential for HSC success

One extreme
favoured and the whole distribution shifts

that
directional selection

The middle
favoured and variation narrows

fitness and both extremes
selected against

4. Activity: Build the Lesson Map

Use the lesson to complete the table. Keep answers brief but specific.

Prompt	Your answer
Main concept	
Important example	
Common mistake to avoid	
How this links to the next lesson	

5. Short Answer Questions

1. Explain this lesson goal in your own words: "Key facts and definitions for Types of Natural Selection". Use one specific example from the lesson.

BAND 3 2 MARKS

2. Apply this idea to a new example: "Relevant terminology and conventions". Show your reasoning clearly.

BAND 4 3 MARKS

3. Analyse why this idea matters for understanding Types of Natural Selection: "The concepts and principles underlying Types of Natural Selection".

BAND 5 4 MARKS

6. Extend: Apply the Idea

BAND 5/6 5 MARKS

A student gives a memorised answer about Types of Natural Selection but does not use evidence or reasoning.

Improve the answer by writing a stronger response that uses accurate terminology, a relevant example and a clear explanation.

7. Multiple Choice

1. What is the best first step when answering a question about Types of Natural Selection?

☐ A. Identify the key concept being tested

☐ B. Write every fact from memory

☐ C. Ignore the command word

☐ D. Skip examples and evidence

2. Which answer would show stronger understanding of Types of Natural Selection?

☐ A. An answer with accurate terms and reasoning

☐ B. A copied definition only

☐ C. A single-word response

☐ D. An answer with no example

3. What should you do if a question asks you to explain?

☐ A. Link the idea to a reason or cause

☐ B. List unrelated facts

☐ C. Only draw a diagram

☐ D. Write the shortest possible answer

8. Success Criteria Proof

Finish with evidence that you can do each success criterion.

SUCCESS CRITERION 1

Prove that you can: Key facts and definitions for Types of Natural Selection

BAND 3 2 MARKS

SUCCESS CRITERION 2

Prove that you can: Relevant terminology and conventions

BAND 4 3 MARKS

SUCCESS CRITERION 3

Prove that you can: The concepts and principles underlying Types of Natural Selection

BAND 5 4 MARKS

One thing I still need help with: