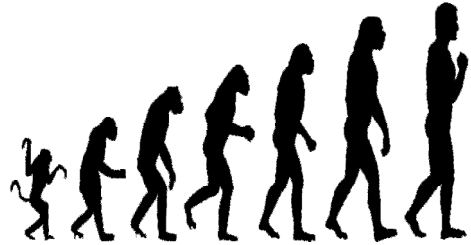


Biology GCSE Core: B3 Task Sheet

'Evolutionary Theory'



Introduction

Since Charles Darwin first published his book, in 1859, the Theory of Evolution has gained more and more scientific evidence. However, there are many people who put forward opposing theories. How would you argue for evolution?

Task

Write an article for a science magazine aimed at teenagers. It can be no more than 1 side of A4. From the viewpoint of a scientist, you need to write a magazine article to show readers of the evidence for the Theory of Evolution, with examples of evolution in action.

These are the suggested segments of the article:

1. Explain Darwin's theory of natural selection.
2. Describe some of the evidence Darwin used to support his theory.
3. Explain why Darwin's theory was not accepted at the time.
4. What evidence has been obtained since Darwin - choose one or two examples and explain, using natural selection:
 - DNA and Genetics
 - Bacterial antibiotic resistance
 - Peppered moths
 - Pesticide resistance in crop pests
5. Challenge an alternative theory of evolution or natural selection.
6. Summary of why you think that new evidence will continue to support Darwin's theory.

Please remember:

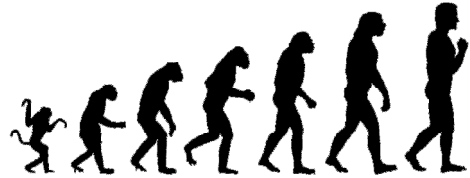
- ☺ Include diagrams or illustrations to help support your article.
- ☺ Reference material used from the internet, or books.
- ☺ It can not be longer than 1 side of A4.

Key words:

adaptation, breeding, environment, evolution, extinct, interdependence, intra-species, natural selection, prey, quantitatively, reproduction characteristic, classification, competition, ecosystem, food chain, fossil, genetic engineering, organic, organism, population, species, genetically modified, predator

B3 LAT: 'Evolutionary theory'

Grade ladder



What is your target grade?

To get grade	You need to:
E	<p>Simply state what evolution is. Describe simply natural selection. State one or two pieces of evidence that Darwin used for his theory. Simply state what the fossil record shows about evolution. Describe simply one other piece of evidence for evolution. Use simple diagrams to support your arguments. Use some key words correctly. Write your ideas using proper sentences. Use at least one source of information.</p>
C	<p>Describe Darwin's theory of evolution using Natural Selection. Describe examples of evidence that Darwin used. Explain simply how these examples supported his theory. State one reason why Darwin's ideas were not accepted at the time. Describe how the fossil record provides evidence for evolution. Discuss one source of evidence for evolution and identify one limitation of the evidence. Use and describe graphs and diagrams to support your arguments. Use all key words correctly and fluently. Write your ideas mostly in your own words, using proper sentences and paragraphs. Use at least two sources of information.</p>
A	<p>Explain in detail Darwin's theory of evolution. Describe a range of examples of evidence that Darwin used. Explain how these examples supported his theory. Explain in detail why Darwin's ideas were not accepted at the time. Explain how the fossil record provides evidence for evolution. Describe the limitations of the fossil record. Discuss two additional sources of evidence for evolution and identify any limitations of the evidence. Use and explain graphs and diagrams to support your arguments. Use all key words correctly and fluently. Write your ideas in all your own words, using proper sentences and paragraphs. Use at least two sources of information to gather information.</p>

Use this grade ladder to help you reach it.

Now use the grade ladder to assess your work. Decide on one or two improvement targets to try.