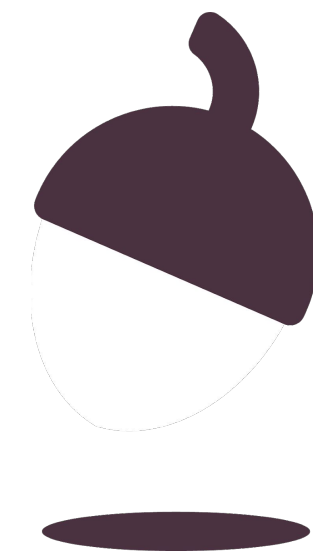


Combined Science - Biology - Key Stage 4

# End of Topic Review

Mrs Gibbs



**OAK**  
NATIONAL  
ACADEMY

# Describe how natural selection has led to great white sharks having sharp teeth.

Stage of natural selection	Apply to example
Variation (caused by mutations)	
Competition	
Survival advantage	
Reproduce and pass on genes	



# Exam question

Some farmers regularly give their cows low doses of antibiotics.

This can increase the amount of milk that the cows make.

Use of antibiotics can lead to the development of resistant strains of bacteria.

Suggest why the regular use of low doses of antibiotics may make this problem worse. **(2)**

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# Compare selective breeding with genetic engineering (4)

Similarities and differences

- *Both involve humans selecting desired characteristics.*
- *Selective breeding involves sexual reproduction, genetic engineering does not.*

● Give one more difference: \_\_\_\_\_

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● Give one more similarity: \_\_\_\_\_

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# Independent task

- 1) Put the Linnaean classification system in order, from largest to smallest:

Phylum, Genus, Species, Kingdom, Order, Class, Family

\_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_,

- 1) The binomial name for a green sea turtle is *Chelonia mydas*. What genus does this turtle belong to? \_\_\_\_\_

- 2) What are the three domains in the three-domain system?

\_\_\_\_\_ and \_\_\_\_\_

