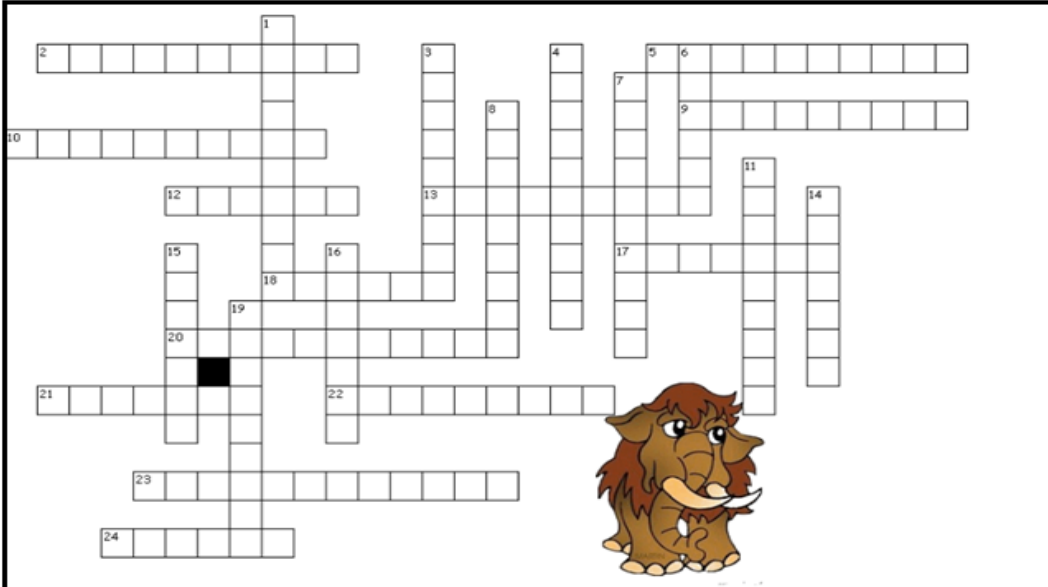


MINISTRY OF EDUCATION, HERITAGE AND ARTS
YEAR 12 BIOLOGY
REVISION WORKSHEET 5

Write the answers to the following questions in your exercise/activity books.

Evolution

1. Discuss the compare Darwin's and Lamarck's theories of evolution. **(5 marks)**
2. Using an example, define the term **Adaptive Radiation**. **(3 marks)**
3. Speciation:
 - a. Define the terms 'species' and 'speciation' **(2 marks)**
 - b. Using examples, differentiate between allopatric and sympatric speciation. **(4 marks)**
4. Reproductive barriers - state the purpose reproductive barriers.
 - name two and describe how they work. **(4 marks)**
5. Revision Crossword: **(24 marks)**



Across

2. structures that are similar in different species
5. a characteristic that helps an organism survive
9. when one species evolves into many; adaptive _____
10. pattern of evolution where a species is stable for a long time then rapidly changes; _____ equilibrium
12. the name of Darwin's book, the _____ of species
13. process by which evolution occurs; natural _____
17. had different shaped shells depending on the island they were from
18. well-supported testable explanation
20. when two species evolve together
21. natural selection is also known as the survival of the _____
22. islands that Darwin visited
23. principle that states that living species are descended from ancient ones; descent with _____
24. the name of the ship that darwin traveled on

Down

1. when two unrelated organisms look alike (sharks & dolphins)
3. refers to the variety of living things
4. when organisms disappear from the earth
6. proposed the theory of evolution by natural selection
7. formation of new species
8. change over time
11. required for new species to form
14. preserved remains of ancient organisms
15. had different shaped beaks depending on the island they were from
16. the study of the earth
19. structures that have no current function

Source: https://www.biologycorner.com/worksheets/evolution_crossword.html

Some words for the puzzle that you may need ...

Modification Beagle Punctuated Origin
 Isolation Turtles Convergent

(the rest you should know)

The End