

MINISTRY OF EDUCATION, HERITAGE AND ARTS

YEAR 13 BIOLOGY

REVISION WORKSHEET 9

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

Interspecific and Intra specific Relationships

Match the terms/phrases in Column A with the examples provided in Column B. (6 marks)

| Column A | Column B |
|----------------------|---|
| 1. Competition | In chickens, the rooster has an erect comb on its head, bigger wattle, long and slender saddle feathers, bigger and curved caudal feathers. |
| 2. Defense strategy | Waggle and round dance of bees |
| 3. Commensalism | Some gardeners have experimented by planting vegetables very close together. These result in much smaller vegetables being produced. |
| 4. Communication | Clownfish are usually found living on the tentacles of a sea anemone, which stings almost all other fishes. The clownfish has a mucus on the skin, which protects itself from the sting and protects the anemones from the butterfly fish. At the same time, the anemone serves as a safe place for the clown fish. |
| 5. Sexual dimorphism | The fruit of some plants sticks to animals' fur and then falls off and grows elsewhere. |
| 6. Mutualism | Mullerian and Batesian Mimicry |

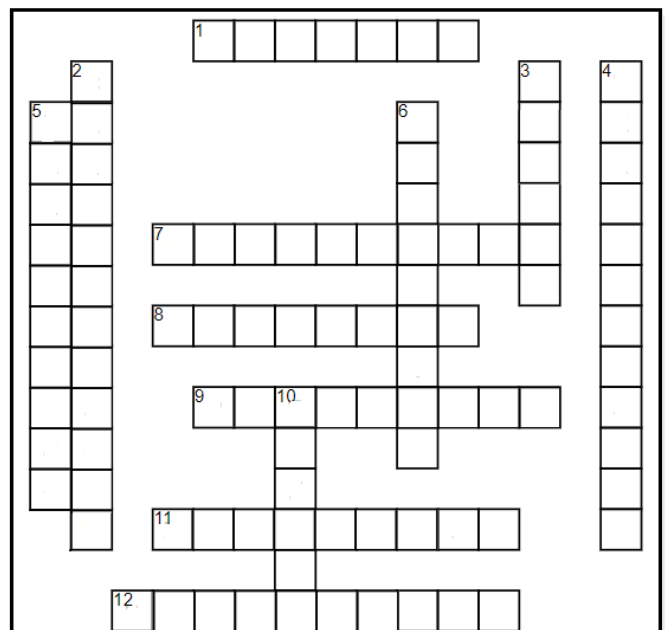
2. Select any three of the six relationships given in Column A above. For each relationship:
- describe the nature of the relationship and the impact on the organisms involved in the relationship; and (6 marks)
 - Explain one advantage and one disadvantage of the relationship. (6 marks)
3. Complete the crossword below on relationships. (10 marks)

Down

- relationship between two organisms where one benefits and the other is not harmed. Example, organism lives on turtle's shell, but the turtle is not harmed.
- male flower cells, which often look like fine yellow powder
- the way in which two or more living things or groups interact or deal with each other
- A species (parasite) benefits from harming another species (the host). Example, mosquitos benefit from humans, but humans feel itchy when a mosquito bites them.
- of or relating to a beneficial relationship between different kinds of organisms
- a place of safety, comfort, or protection

Across

- to gain help, profit, or an advantage from something
- to spread or scatter over an area
- an animal that hunts and eats other animals to survive
- plants or animals that grow on and feed off others
- a close relationship between two organisms and both benefit from each other. Example, trees and humans exchange oxygen and CO₂
- able to be hurt easily



The End