

Worksheet 1 – Zebra Danio Video 1

Now that you have watched video 1 - please answer the questions below by writing the letter of the correct answer (**A,B,C or D**) in the space provided, only one answer is correct. Once you have answered the questions please watch video 2.

1) Which one of the following fish families does the Zebra Danio belong?

- A) Salmon B) Shark C) Cod D) Minnow**

Answer _____

2) In which country are Zebra Danios a native species?

- A) England B) India C) Nigeria D) USA**

Answer _____

3) Why were Zebra Danios initially genetically engineered to glow under UV light?

- A) As nightlights B) So they were easier to catch**
C) To detect polluted water D) As pets

Answer _____

4) Which of the following is true of the Zebra Danio?

- A) They can breathe air B) They can regenerate damaged body parts**
C) They can grow up to 1 meter in length D) They give birth to live young

Answer _____

5) Which of the following areas of research have Zebra Danios NOT been used in?

- A) Cancer B) Genetic modification**
C) Heart Disease D) Lung Disease

Answer _____

Name _____

Date _____

Worksheet 2- Ecosystem Video 2

Now that you have watched video 2 – please answer the questions below by writing short answers in the space provided. Once you have answered the questions please watch video 3.

1) What is an ecosystem?

2) List 3 interactions that may occur between the species found in the tropical glass house ecosystem.

3) What do you think would happen to the tropical glass house ecosystem if the water temperature were to increase by 10°C?

4) Explain why it is important for sunlight to enter the glass house and which of its species rely on the sun's energy?

5) List 3 human activities which contribute to global climate change.

Name _____

Date _____

Worksheet 3 – Feeding Behaviour Video 3

Now that you have watched video 3 – please answer the questions below by writing short answers in the space provided.

1) Zebra Danios have an upturned mouth adapted perfectly to feeding from the surface, how would you expect the Zebra Danios to adapt over time if the only food source available was from the bottom of the water?

2) Why do you think Zebra Danios have a darker colour on the top of their backs and blue stripes on their sides?

3) The Zebra Danios were introduced to the glass house to help remove the mosquito larvae that had built up in the pond, as the Zebra Danios ate all of the mosquito larvae their population grew, now they have eaten all of the larvae what would you expect to happen to the number of Zebra Danios?

4) The Zebra Danios respire using oxygen in the water, there is no oxygen pump in the pond, suggest two possible reasons why the Zebra Danios do not run out of oxygen?

Name _____

Date _____

Independent Learning Worksheet

Answer the question below in the space provided. This should be done as independent learning.

Zebra Danios originate from an area of the world in which the disease Malaria is a serious problem. Malaria is passed to humans through the bites of adult mosquitos carrying the disease; many people live and work near stagnant water sources which are a perfect breeding ground for mosquitos. Describe how Zebra Danios could be used to decrease the spread of malaria using the evidence provided in the videos you watched in the last lesson.