

THE VIRTUAL EVOLUTION STICKLEBACK LAB

As you complete each part of the virtual lab, answer the questions below in the space provided.

QUESTIONS

INTRODUCTION

1. Define "model organism."
2. How do spines protect ocean stickleback fish?
3. How did ancestral populations of ocean-dwelling fish come to live in freshwater lakes?
4. Watch the video about pelvic reduction in freshwater stickleback. The loss of stickleback pelvic spines is similar to the loss of which body parts in some other four-legged vertebrates?
5. From a researcher's perspective, what is the benefit of having access to hundreds of postglacial lakes?
6. Watch the video with evolutionary biologist Dr. Michoel Bell. Why is the threespine stickleback a model organism for studies in evolution? (List at least two reasons.)
7. Watch the video with Dr. David Kingsley explaining hind-limb reduction. Name two other vertebrate animals whose evolutionary histories included the loss of hind limbs.

OVERVIEW

1. Click on the interactive stickleback fish. Describe where its spines are located.
2. What is the difference between marine, sea-run, and freshwater stickleback fish populations? Be specific.
3. Watch the video about the stickleback fish armor.
 - a. In addition to the spines, what is another component of the "armor" of a stickleback fish?
 - b. Explain how the stickleback armor protects the fish from some predators.

TUTORIAL 1

1. Describe the following structures:

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