

# Exploring Evolution in the Periwinkle

(Adapted from SimBio Virtual Labs)

# OBJECTIVES:

- Apply the principles of natural selection
- Explore factors that affect selection
- Generate testable hypotheses about evolution; practice designing experiments with appropriate controls

# INTRODUCTION

The flat perlwinkle, shown at right, is a small snall that lives on seaweeds in the rocky intertidal of New England. The European green crab is one of the snall's top predators. As its name implies, the European green crab is not native to New England; it traveled from Europe sometime in the early 19th century. Before 1900, the green crab was not found north of Cape Cod. Since that time, however, the crab has expanded its range northward, and is now found as far north as Nova Scotia. Thus the perlwinkle snalls of Cape Cod are now exposed to this predator.



Biologist Robin Seeley hypothesized that the New England perlwinkle population had evolved due to predation from green crabs. To test this hypothesis, Seeley obtained a museum's 1871 collection of perlwinkles from Appledore Island, north of Cape Cod. She compared these old shells to new shells she had gathered at

the same place, measuring the thickness of each shell, as shown at right. (In her data, each number represents a single shell without a unit of measure; Seeley plotted her data as a logarithm of thickness, which has been converted here to an integer. Larger numbers indicate a thicker shell.)

SHELLS COLLECTED IN 1982-1984, EIGHTY YEARS AFTER EUROPEAN GREEN CRABS ARRIVED

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Seeley went on to continue her studies of the impact of the European green crab on the periwinkle population in both the field and lab. In this lab exercise, you'll explore some of the methods and findings using a computer simulation.



1982-1984, Crabs Present



# **Exploring Evolution In The Periwinkle Answers**

**Richard Bailey** 

**Exploring Evolution In The Periwinkle Answers:** 

#### **Exploring Evolution In The Periwinkle Answers** Book Review: Unveiling the Power of Words

In a world driven by information and connectivity, the energy of words has be evident than ever. They have the capacity to inspire, provoke, and ignite change. Such could be the essence of the book **Exploring Evolution In The Periwinkle Answers**, a literary masterpiece that delves deep in to the significance of words and their impact on our lives. Written by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall affect readers.

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