

Explain each of the following scenarios in Lamarckian terms and then in terms of natural selection. If you need more information about how Lamarck's and Darwin's theories differ, look at [this site](#).

WEBSITE LINK: <http://sciencenetlinks.com/student-teacher-sheets/lamarck-and-darwin-summary-theories/>

Scenario 1: The number of mice with light color coat on an island with white sandy beach increases over time.

Scenario 2: After the Industrial Revolution, moths changed from being mostly light to being mostly dark.

Scenario 3: The incidence of antibiotic-resistant bacteria is on the rise.

Scenario 4: Individuals with the gene for sickle-cell anemia are resistant to malaria.

Your submission will be graded as follows:

- Accurate explanation of Scenario 1 in terms of Lamarckian and natural selection (25 points)
- Accurate explanation of Scenario 2 in terms of Lamarckian and natural selection (25 points)
- Accurate explanation of Scenario 3 in terms of Lamarckian and natural selection (25 points)
- Accurate explanation of Scenario 4 in terms of Lamarckian and natural selection (25 points)