NAME	DATE
NAIVIL	



## **Natural Selection Assessment**

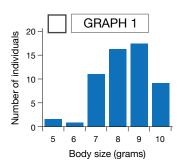
1. A student explains how natural selection causes populations to change over time like this:

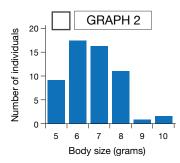
Natural selection happens because individuals have to fight one another to get resources and find a mate. Only the strongest, fastest, and fiercest individuals get to reproduce and pass on their alleles. That's what "survival of the fittest" means.

The teacher says, "Wait a minute. What about sea sponges or oak trees? They can't fight one another."

Construct an explanation of natural selection that applies to ALL living things.

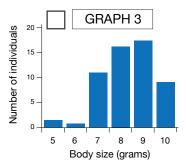
- 2. A rare genetic variation for smaller body size exists in a population of organisms.
  - **a.** Choose the graph that best supports the statement above.

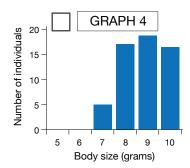


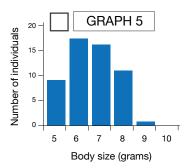


**b.** The variation for smaller body size allows the organisms that have it to use a resource that others cannot; it has no disadvantages.

Choose the graph that shows how the distribution of body size in the population is likely to change after many generations.







**c.** Compare the graphs you chose in parts **a** and **b**, and make a claim about the population.