

Conservation Genetics: Evolution in Large Populations/Natural Selection Worksheet

Group Names: _____

Activity ONE: M&Ms

1) What are the *forces* that drive evolution?

2) For each force, imagine a population and use your M&Ms to demonstrate to your group members how that force affects allele frequency. Then create a narrative (with pictures or words) to describe your demonstration.

Force: Narrative:	Force: Narrative:
Force: Narrative:	Force: Narrative:

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Activity TWO: Paper Strips

1) In what ways can selection change the distribution of quantitative phenotypes?

2) Imagine a population with an interesting quantitative trait. PLEASE be creative or this will be boring. Negative 1,000 points if you pick height. Use your strips of paper (representative of a trait value) to demonstrate to your group members how selection can work on this trait in your population. Then, create graphs like the one on the slide to show how the trait distribution has now changed. Your group should come up with at LEAST three graphs.