

Natural Selection Worksheet

Data Table

	<i>Typica</i> Moth	<i>Carbonaria</i> Moth
	Light Tree Bark Background	
Partner 1		
Partner 2		
	Dark Tree Bark Background	
Partner 1		
Partner 2		

Post-Lab Questions

- Average the class data for the quantity of each moth captured on each type of tree bark background.
 - Which form of the peppered moth appeared to be more easily spotted by prey against the light tree bark background?
Dark tree bark?
 - Using the average class data, what was the ratio of survival for *typica* vs. *carbonaria* moths for each background?
- What would you predict would happen to the ratio of the peppered moth population as a result of cleaner burning fuels?
- Explain how this activity simulates the process of natural selection and how this process leads to evolutionary adaptation.
- In Western Africa there are birds called black-bellied seedcrackers. Some have small bills and feed on soft seeds while others have large bills which are able to crack the shells of hard seeds. Would you predict natural selection for or against survival of birds with an intermediate sized beak? What are the variables or environmental conditions that would affect their survival?