

Seed Size Variation and Evolution Worksheet

Data Table

Seed Number	Mass (g)	Length (mm)
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		

Post-Lab Questions and Calculations *(Use a separate sheet of paper to answer the following questions.)*

1. Examine the seed mass data. Group the data into five logical bins based on the range of measurements.
2. Construct a histogram of the seed mass based on the information in the data table above and the answer to Question 1.
3. Examine the seed length data. Group the data into six logical bins based on the range of measurements.
4. Construct a histogram of the seed length based on the information in the data table above and the answer to Question 3.
5. Based upon the histogram, which seed size range and seed length range are most common in your sample?
6. A new species of birds is introduced to the area. The bird has a small beak and is unable to eat seeds larger than 17 mm long. Predict how this new predator might affect the distribution of seed size? How would this effect cause natural selection to occur?
7. In this experiment, how are variation and evolution dependent on each other?