

Name

Bioassay Worksheet

Data Table

NaCl Concentration	Number of Seeds Germinated	Percent Germinated	Root Length (mm)	Average Root Length (mm)	Log (Salt Conc.)
3%					
2%					
1%					
0.5 %					
0.1%					
0.01%					
Control (0%)					

Post-Lab Questions

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- 2. Using the percent germination results, determine the concentration of salt solution that resulted in a 50% "death" of lettuce seeds. Label this point on the graph.
- 3. What was the effect of salt solution concentration on the growth of the roots of the seeds that did germinate?
- 4. Discuss three environmental effects of using sodium chloride as a deicing agent on highways and roads in the winter.
- 5. How would you determine the concentration of the solutions and the number of tests to be performed, if you were to design a bioassay of an unfamiliar potential toxin?
- 6. Outline the steps involved in designing a bioassay to test the toxicity of contaminated soil using lettuce seeds.