

Intermediate Science 7
Unit 1: Interactions In An Ecosystem
Ecosystem Core Lab 1: Salty Seeds



Name: _____

Date: _____

Partners:

Problem:

How a can an abiotic factor in the environment affect seed root growth.

Materials:

- | | |
|-------------------------|-------------------|
| 2 Plastic drinking cups | 2 Paper towels |
| 30 mL salt | 2 Plastic baggies |
| Stir stick | Masking tape |
| 10 Seeds | Marker |

Hypothesis: (How do you think the seeds will be affected by adding salt?) **[2]**

Procedure: **[7]**

Refer to page 22 of text. Identify the following

Independent Variable:

Dependent Variable:

5 Controls

Observations:

Table 1: Root Growth of Seeds after 2 Days

[2]

	"Fresh Water" Seeds	"Salt Water" Seeds
# of Seeds Showing Root Growth		

Table 2: Sketch of a Seed in Each Situation

[2]

"Fresh Water" Seed	"Salt Water" Seed

Analysis:

1. How did the amount of sprouting differ for the seeds kept in fresh water compared to those kept in salt water? Describe any differences in appearance from these two groups. [2]

2. What abiotic factor was being tested in this experiment? [1]

3. Do you believe that all seeds would re-act the same in this situation? Explain your answer. [2]
