



# Ecosystem: Student Activity Sheet

Name: \_\_\_\_\_

Date: \_\_\_\_\_

## Part 1: Limiting Factors

1. Sketch your plants and document any observations you notice for **14 days**.
2. What are the limiting factors in the cup ecosystem? \_\_\_\_\_  
\_\_\_\_\_
3. In the cup ecosystem, which limiting factor do you think matters most? Explain your answer.  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
4. When comparing the two cup ecosystems, what other factors affect how many plants can grow?  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

## Part 2: Abiotic and Biotic Factors

1. List all non-living and living factors that are present in the cup ecosystem when inside.

Non-living _____	Living _____

2. List all abiotic and biotic factors that are present in the cup ecosystem when outside.

Abiotic	Biotic

3. What factors are the same, and what is new ? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
4. How have your abiotic and biotic factors changed? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
5. If you planted your seeds in the ground outdoors, how would your abiotic and biotic factors change?  
\_\_\_\_\_  
\_\_\_\_\_

### Part 3: Ecosystem Investigation

1. What limiting factor are you changing? \_\_\_\_\_
2. How do you think changing this limiting factor will affect your ecosystem? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
3. Sketch your plants and document any observations you notice for **14 days**.
4. How did your results compare to your prediction? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
5. How did changing your limiting factor impact the other limiting factors? Explain \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_