

Name \_\_\_\_\_

## Algae Experimental Planning Sheet

**Research Question:** What is the effect of fertilizer on algae growth?

**Materials:**

Algal culture  
Distilled Water  
Liquid Plant Fertilizer  
Masking tape and markers  
Transfer pipettes  
Test tubes  
Test tube rack  
Plastic wrap

**Predict:** Do you think fertilizer will affect algae growth? If so, how?

**Experimental Design:**

What is the independent variable in this experiment?

What is the dependent variable?

What factors will be controlled?

How will you know if there fertilizer has an effect on algae growth?

In the boxes below, draw a diagram to show how you will set up the experiment:

Experimental Condition	Control

**Procedure:** After your class has agreed on a procedure, write the steps below:

**Observations:**

Day	Observations
1	
2	
3	
4	

**Results:** In 3 sentences, summarize the results of your experiment below. How did it compare to other lab groups? What do you conclude about the effect of fertilizer on algae?

**Explain:** Why do you believe you saw the results that you did? Hint: Keep in mind what the fertilizer contains.

**Extend:** What is another research question you could test using the same materials?