

## Student Handout #2

# Research Design Table

Name Jade, Taylore, Tori Class \_\_\_\_\_ Date \_\_\_\_\_

*Directions:* Complete the following table with your research project idea.

<p><b>Hypothesis Draft</b></p> <p>If we plant different plants with each other, then they will take a longer time to grow.</p>				
<p><b>Independent Variable</b></p> <p>The biodiversity of plants (Different plants that usually don't grow with each other will be planted in the same box)</p>		<p><b>Background Questions</b></p> <p>What types of plants will we use?                  How does biodiversity affect or promote plant growth?                  What types of plants grow well with other plants?                  What types of plants don't grow well with other plants?                  What type of soil do plants grow well in?</p>		
<p><b>Dependent Variable</b></p> <p><i>Quantitative</i></p> <p>Height of a singular species of plant                  Length of roots of singular species of plant</p> <p><i>Qualitative</i></p> <p>The color of the plants                  How fragile the plant is                  How long it takes to grow</p>		<p><b>Constants</b></p> <p>Type of soil                  Amount of soil                  Size of box                  Amount of water that each plant received                  Amount of light each plant received                  How far the light is from each plant</p>		
<p><b>Experimental Groups and Control Group</b></p>	<p><b>Control Group</b></p> <p>Each plant grown alone in its own box</p>	<p><b>Exp. Group #1</b></p> <p>Growing plant A and plant B together</p>	<p><b>Exp. Group #2</b></p> <p>Growing plant B and plant C together</p>	<p><b>Exp. Group #3</b></p> <p>Growing plants A, B, and C together</p>