Group Members \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ *Biology*

**Experimental Design:**

**VARIABLES THAT AFFECT THE PROCESSES OF CELLULAR RESPIRATION & FERMENTATION**

***Instructions: Your group must research and complete the following experimental design and have it turned into Ms. Rust by Monday, November 26, 2012. Experimentation will begin on Wednesday, November 28.***

1. Background Research – What factors affect cellular respiration? What factors affect anaerobic fermentation?
2. Formulate a scientific question (problem) about the relationship between one of the above variables and cellular respiration/fermentation. Write the question below.
3. Background Research – Research your problem. Record important information AND their sources!!! You may type this information.
4. Identify your variables:
   1. Independent/manipulated variable (what are you testing):
   2. Dependent/responding variable (what are you measuring):
   3. Control variable (what are you comparing your independent variable to):
5. Write a hypothesis for your problem. If …. Then….
6. Write a procedure for testing your problem.
7. Create a list of materials needed to perform your experiment.
8. Create a complete data table for data collection during the experimentation phase.