**­pGLO Lab Write Up 2014**

This assignment must be done neatly on lined paper or typed.

**FORMAT:**

* Each section should have a heading, underlined, or capitalized
* The data table should be made with a ruler

**SECTIONS:**

1. TITLE - pGLO lab
2. DESCRIPTION / BACKGROUND
   1. Describe the main point of this lab.
   2. Please use the words: DNA, bacteria, plasmid and transformation.
3. PROCEDURES
   1. A summary of the steps we did for the lab.
   2. You DO NOT need to use details language (no amounts or times are needed)
4. DATA

Draw a table like below onto your paper and record the following in it:

|  |  |  |
| --- | --- | --- |
|  | -- DNA | + DNA |
| Luria Broth |  |  |
| Luria Broth and AMPICILLIN |  |  |

1. Did the bacteria grow? (Remember ampicillin is a bacterial killer.)
2. Was the bacteria be normal color (whitish) or the new color – glowing green/yellow
3. Were there any mistakes you might have made?
4. ANALYSIS

Answer the following questions:

1. What is a plasmid?
2. Describe the two genes that pGLO has on it
3. What is the difference between the + and the – tube?
4. What does ampicillin do?
5. Describe the growth on each of the four plates (amount of growth, color of growth)
6. For each plate describe WHY you got the result you did or if it was an unexpected result come up with one possible thing that might have gone wrong.