

# PGLO Transformation Lab:

**OBJECTIVES:**

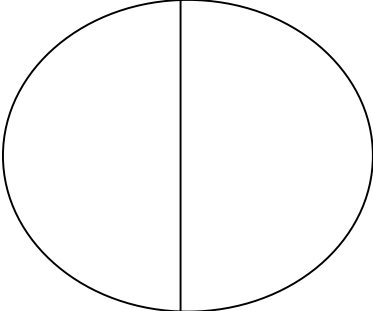
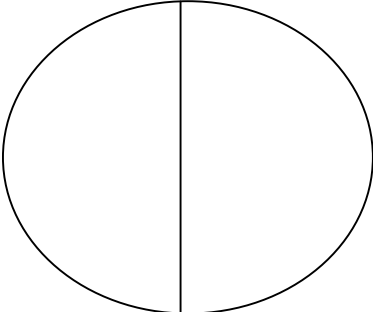
**PreLab Questions:**

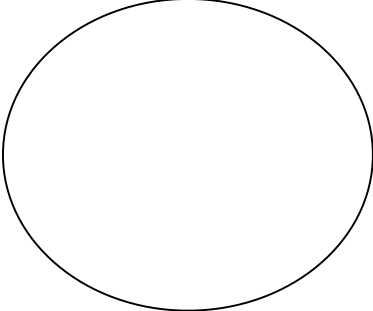
1. What is ecoli?	7. What is ecoli's purpose in this experiment?
2. What is agar?	8. What is the purpose of agar in this experiment?
3. What is LB broth?	9. What is the purpose of LB in this experiment?
4. What is a plasmid?	10. What is the plasmid used for?
5. What is an antibiotic?	11. What is the purpose of having ampicillin in the agar?
6. What is ara?	12. What is the purpose of ara in this experiment?

**Materials and Equipment: Attach flowgram**

**Procedure: Attach flowgram**

**DATA and OBSERVATIONS: (after 24 or 48 hours)**

<p><b>P+</b> # colonies: Description:</p>	<p><b>LB</b></p> 	<p><b>P-</b> # colonies: Description:</p>
<p><b>P+</b> # colonies: Description:</p>	<p><b>LB/Amp</b></p> 	<p><b>P-</b> # colonies: Description:</p>

<p><b>P+</b> # colonies: Description:</p>	<p style="text-align: center;"><b>LB/Amp/Ara</b></p> 	
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**ANALYSIS AND CONCLUSION:**

1. Based on your results, were you successful in transforming the ecoli bacteria? **EXPLAIN**.
- 2 Describe applications to this lab: what could this technology be used for?
3. List and describe 4 new things you learned from this lab: technique, equipment, vocabulary, process, etc.
4. List any and all errors that took place during your experiment **and** explain the effect the error had on your data? (did it increase the # of colonies or decrease the # of colonies expected for a particular plate)  
How could you reduce the error in your next experiment?