**Prokaryotic Gene Regulation – Lac Operon Handout**

**As you work your way through the prokaryotic gene regulation – lac operon video, answer the following questions to help you collect the relevant information.**

1. **What is the E. coli lac operon?**
2. **What are the other components involved in the inducible system of genes?**
3. **How is gene expression induced/turned on?**
4. **What is the function of the repressor molecule and where does it bind? How are they released?**
5. **What is the function of beta-galactosidase?**
6. **What is the function of permease?**