

## **Laboratory Report Criteria**

Your Laboratory Report Must Include the following:

### **Part I. Your Own Gel**

- Purpose Statement
- Techniques Used
- Material and Procedure – See Lab Edvotek # 337 SOP
- Data Table 1: Your group data (your own gel no matter what your results were). Data includes bands and migration distances for each lane
- A Gel Diagram
- A Gel Image if possible (extra Credit)
- Data Analysis of your own gel. A discussion on what your results suggested. You also need to provide an explanation as to what may have gone wrong. Your explanation and claims must be based on evidence. **It is not just a wild guess.** You should refer to the troubleshooting guide I provided.
- Conclusion statement for your own gel. Remember, your results can be non-conclusive but you have to state that it is non-conclusive due to .....

### **Part II. The Gel Results I Provided (Gel Data Document)**

- Data Table 2: Taken from the image of the gel I provided Just call that gel “Possible Results” Data Table 2 must include the migration distances for each band in each lane.
- Band size determination in base pairs. See the Bps for the ladder used below.
- Data Analysis discussion of the gel. If you make a claim, you need to back it up with evidence from your gel!
- Conclusion statement based on the Possible Results Gel ONLY. Remember to reflect on the purpose in your conclusion statement.

### **DNA Ladder – Base Pairs**

2640 bps  
1400 bps  
1100 bps  
700 bps  
600 bps  
400bps  
200 bps.