BME/BIOL 178: Scientific research article reports

When reading scientific articles, answer the following questions (max one page):

1. What was the overall goal of the paper? What biological question was addressed?

2. Summarize the general approach/strategy.
   For example: Gene X was knocked out to determine its role in mouse heart development

3. Identify three key experiments and briefly describe their significance.
   For example: Generation of transgenic reporter mice to screen for infected cells (drug resistance) that activated an ESC-like program (GFP reporter driven by an ESC-specific promoter was necessary to make this study feasible.

4. Are the data consistent with the conclusions?
   Consider this question for each experiment and for the overall conclusions; report only the overall. Justify your answer

5. Suggest an alternative explanation for either one specific experiment or for the overall conclusion.
   There is always at least one alternative explanation!

6. Was the overall goal of the study accomplished? Why or why not?

7. Suggest one specific experiment to build upon this work.
   Do not suggest a control experiment, unless you believe it’s necessary for the conclusion of the overall interpretation of the paper.