**JOURNAL CLUB WORKSHEET**

You will be graded on the work you complete on this worksheet BEFORE class ***and*** the work you complete on the worksheet DURING class. Download this document, **type** your responses into this template, then bring a hard copy to class. During class you can amend or add to your responses by simply writing (legibly) on the document.

Your Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Paper Title: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Broad Topic: \_\_\_\_\_\_\_(e.g.- metabolism)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Specific Topic: \_\_\_\_\_(e.g. – effect of the pentose phosphate on oxidative stress resistance in cancer cells)\_\_\_\_\_\_\_\_\_\_\_\_

PHASE I - What The Author Said and What I Think about It. It is important that you take the time to ensure that you understand the paper. Once you understand what was done, you will be equipped to critique the authors’ rationale, data interpretation, and conclusions.

1. Summarize the author's main point in 3 or 4 sentences, identifying major themes and key points as appropriate. Don't evaluate the material at this point, just summarize the paper.
2. Identify and Define the Key Terms. Underline and define the key terms and concepts. These may be background information and/or techniques.
3. Assess the Data/Results and the Conclusions. Evaluate ***at least 3 figures or tables*** (pick the most important ones), answering the following questions: What was done? How was it done? Why was it done? What conclusions did the authors draw from these results?

PHASE II – The Broader Picture. Your senior seminar experience has been designed (1) to review some of the breadth of the field of biology and (2) to allow you to explore connections between science and society. Consider these issues by responding to the prompts below.

1. Connect to Courses by stating which courses helped prepare you to read and understand this paper. Explain which broad themes of these biology courses are represented by which aspects of the article.
2. Connect to Society by considering the potential applications of this science on management, medicine, policy, technology, or other aspects of society and culture outside of science. Explain and be specific!

PHASE III – What’s Next? Address at least 2 of the following questions:

What gaps in knowledge remain? What important questions weren’t answered by the research presented in this paper? What experiments/research should be conducted next and why? How would the studies you propose fill the knowledge gaps and advance the field?