

AP Biology: Lab 4 Diffusion and Osmosis Peer Review

Report by \_\_\_\_\_

Reviewed by \_\_\_\_\_ Reviewed by \_\_\_\_\_ Reviewed by \_\_\_\_\_

|  |   |   |                             |                                    |                                    |                              |
|--|---|---|-----------------------------|------------------------------------|------------------------------------|------------------------------|
| <p><b>YOU MUST ADDRESS THE FOLLOWING WORDS AND CONCEPTS IN YOUR INTRODUCTION:</b></p> <p>Isotonic, hypertonic, hypotonic, water potential, solvent potential, pressure potential, semipermeable membrane, cell wall, turgor pressure concentration gradient, molarity, aquaporins, permeability of solutes, diffusion, osmosis, passive transport, plasmolysis</p> | <b>Section 1: Introduction and Guiding Question</b>   |   | <b>Reviewer Rating</b>      |                                    |                                    |                              |
|  | Is there enough background information and is it accurate?  |   | <input type="checkbox"/> No | <input type="checkbox"/> Partially | <input type="checkbox"/> Yes       |                              |
|  | Is the guiding question explicit and did the author <b>EXPLAIN HOW</b> the question is related to the background information? |   | <input type="checkbox"/> No | <input type="checkbox"/> Partially | <input type="checkbox"/> Yes       |                              |
|  | Reviewers: <b>EXPLAIN HOW</b> the author could improve this part of his or her report.  | Author: What revisions did you make in your report? |                             |                                    |                                    |                              |
| <b>Section 2: Method</b>   |   |   |                             | <b>Reviewer Rating</b>             |                                    |                              |
| Did the author describe the procedures and <b>EXPLAIN WHY</b> the procedures were used?  |   |   |                             | <input type="checkbox"/> No        | <input type="checkbox"/> Partially | <input type="checkbox"/> Yes |
| Did the author describe what data were collected and <b>EXPLAIN WHY</b> the data were collected?   |   |   |                             | <input type="checkbox"/> No        | <input type="checkbox"/> Partially | <input type="checkbox"/> Yes |
| Reviewers: <b>EXPLAIN HOW</b> the author could improve this part of his or her report.   |   | Author: What revisions did you make in your report? |                             |                                    |                                    |                              |

| Section 3: The Argument  |   | Reviewer Rating                                     |                                    |   |
|--|---|---|------------------------------------|---|
| Did the author make a claim consistent with the evidence that answers the guiding question?  |   | <input type="checkbox"/> No                         | <input type="checkbox"/> Partially | <input type="checkbox"/> Yes            |
| Quality of Evidence  | Did the author describe how he/she analyzed the data and <b>EXPLAIN WHY</b> the analysis helped him/her answer the guiding question?        | <input type="checkbox"/> No                         | <input type="checkbox"/> Partially | <input type="checkbox"/> Yes            |
|  | Is the analysis of the data appropriate and free from errors?   | <input type="checkbox"/> No                         | <input type="checkbox"/> Partially | <input type="checkbox"/> Yes            |
|  | Is the author's interpretation of the analysis valid?   | <input type="checkbox"/> No                         | <input type="checkbox"/> Partially | <input type="checkbox"/> Yes            |
|  | <b>MANDATORY DATA: graphical determination of potato cell molarity, standard errors for each solution, solute potential of potato cells</b> | <input type="checkbox"/> No                         | <input type="checkbox"/> Partially | <input type="checkbox"/> Yes            |
| Presentation of Evidence   | Are tables and graphs correctly formatted, labeled, and are metric units used?  | <input type="checkbox"/> No                         | <input type="checkbox"/> Partially | <input type="checkbox"/> Yes            |
|  | Are specific values from tables and graphs referenced in the body of the text?  | <input type="checkbox"/> No                         | <input type="checkbox"/> Partially | <input type="checkbox"/> Yes            |
| Justification of Evidence  | Did the author state <b>WHAT</b> scientific concept is being defended?  | <input type="checkbox"/> No                         | <input type="checkbox"/> Partially | <input type="checkbox"/> Yes            |
|  | Did the author <b>DESCRIBE</b> the data from their analysis used as evidence in support of the scientific concept?                          | <input type="checkbox"/> No                         | <input type="checkbox"/> Partially | <input type="checkbox"/> Yes            |
|  | Did the author <b>EXPLAIN HOW</b> the evidence supports the underlying scientific concept?  | <input type="checkbox"/> No                         | <input type="checkbox"/> Partially | <input type="checkbox"/> Yes            |
| Did the author <b>EXPLAIN HOW</b> his or her claim agrees with the claims made by other groups and <b>PROVIDE REASONS</b> for disagreements? |   | <input type="checkbox"/> No                         | <input type="checkbox"/> Partially | <input type="checkbox"/> Yes            |
| Reviewers: <b>EXPLAIN HOW</b> the author could improve this part of his or her report.   |   | Author: What revisions did you make in your report? |                                    |   |
| <b>Mechanics</b>   |   | <b>Reviewer Rating</b>                              |                                    |   |
| <b>Organization:</b> Is each section easy to follow? Do paragraphs include multiple sentences: Do paragraphs begin with a topic sentence?    |   | <input type="checkbox"/> No                         | <input type="checkbox"/> Partially | <input type="checkbox"/> Yes            |
| <b>Grammar:</b> Are the sentences complete? Is there proper subject-verb agreement in each sentence? Are there run-on sentences?             |   | <input type="checkbox"/> No                         | <input type="checkbox"/> Partially | <input type="checkbox"/> Yes            |
| <b>Conventions:</b> Did the author use appropriate spelling, punctuation, paragraphing and capitalization:                                   |   | <input type="checkbox"/> No                         | <input type="checkbox"/> Partially | <input type="checkbox"/> Yes            |
| <b>Word Choice:</b> Did the author use the appropriate words (e.g., there vs. their, to vs. too, than vs. then, etc.)?                       |   | <input type="checkbox"/> No                         | <input type="checkbox"/> Partially | <input type="checkbox"/> Yes            |
| <b>Fluency:</b> Does the paper as a whole flow well? Do the sections follow each other to give a complete idea of the lab?                   |   | <input type="checkbox"/> No                         | <input type="checkbox"/> Partially | <input checked="" type="checkbox"/> Yes |