**Suggested Lab Report Grading Rubric**: 25 possible points.

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| Points | Introduction  | Experimental Design | Results | Conclusion/Discussion | Grammar and Spelling |
| 5 | Well researched, excellent comprehension of material, hypothesis clearly stated  | Students relate design to specific question. Protocols outlined clearly.Students show understanding of experimental concepts like standardization, replication, etc.  | Students have labeled, legible graph of correct data with figure caption that explains graph and data. | Students demonstrate comprehension by linking results back to original hypothesis (i.e. Original hypothesis was supported or not). Students discuss natural selection implications of osmotic balance using their results.  | <3 errors |
| 4 | Decent background, moderate understanding, hypothesis clearly stated | Students detail experimental design but do not link to hypotheses. Protocols outlined.Some understanding of experimental concepts. | Neat and clean graph with correct data. Graph has figure captions but no axis labels. | Students link results to hypothesis but do not clearly state whether they hypothesis was supported. Some discussion of implications towards natural selection.  | <6 errors |
| 3 | Some background, little understanding, hypothesis mentioned | Students poorly communicate experimental design, protocols barely mentioned, little understanding of experimental concepts. | Graph does not have proper data or mixed up axes. Graph is missing labels or figure caption as well.  | Students do not link results to hypothesis, merely restate methods and results. Little or no discussion of broader concepts. | <9 errors |
| 2 | Little background information, little comprehension of the topic, no hypothesis  | Experimental design is protocols only with no indication that students understand reasoning behind the design or its relationship to hypothesis. | Graph is incorrect data, lacks axis labels, figure captions, etc.  | Students repeat previous sections with zero discussion of implications or relationships. | <12 errors |
| 1 | No background research, very little comprehension, no mention of hypotheses | Experimental design is a picture or diagram with little or no text explaining protocols. Hypothesis not mentioned. | Graph is illegible or absent. | Students demonstrate little understanding, do not link the sections together, do not make any broader inferences on work.  | >13 errors |