

Appendix A8: Sample Quantitative Literacy Rubric

**Lab/Problem Solving Rubric**

Note: Text representing key differences between adjacent score levels is shown in **bold**.

<b>Components</b>	<b>Level 1</b>	<b>Level 2</b>	<b>Level 3</b>	<b>Level 4</b>	<b>Level 5</b>
Understanding the problem and selecting an appropriate solution strategy	<b>Misunderstanding of the problem and inappropriate strategy selected</b>	<b>Part of the problem misunderstood or misinterpreted or selected strategy is not appropriate</b>	<b>Problem understood and a strategy selected that leads to a solution</b>	Level 3 plus: <b>Correctly implements solution strategy that leads to a correct solution</b>	Level 4 plus: <b>The strategy selected is efficient and may come from a variety of strategies examined</b>
Selecting or generating data needed to solve the problem	<b>No data explicitly shown</b>	<b>Some charts, graphs or other data generated</b>	Level 2 plus: Data generated <b>relates to the problem statement</b>	Level 3 plus: <b>Data generated is focused and significant to the solution</b>	Level 4 plus: <b>Strong evidence provided and highlighted through data</b>
Communicating and justifying an answer in terms of the data in the problem and using appropriate mathematical language (terms and symbolism)	<b>No justification provided</b>	<b>Some justification provided through data or written words but incomplete or difficult to follow</b>	Written justification <b>follows from data provided/generated; describes strategy and thinking</b>	Level 3 plus: <b>Argument is convincing and follows a logical progression with appropriate mathematical terminology</b>	Level 4 plus: <b>Uses specific data to evaluate the reasonableness of the answer and uses mathematical terminology and symbolism effectively</b>
	F	D	C	B	A

Note:

\*All lab reports begin at level 3; lack of evidence for level 3 will result in level 1 or 2 assigned; to move to level 4 or 5, evidence must be strong.

\*The rubric is designed to give you feedback for improvement on future assignments; if you don't understand the feedback, please see the instructor for clarification