

### Core Curriculum Scoring Rubric for Empirical & Quantitative Skills

Criteria	Not Observed 0	Minimal 1	Improving 2	Proficient 3
<b>Arguments demonstrate importance of Empirical &amp; Quantitative Skills toward answering questions.</b>		Presents an argument for which quantitative evidence is pertinent but does not provide adequate explicit numerical support.	Uses quantitative information but does not effectively connect it to the argument or purpose of the work.	Uses quantitative information in connection with the argument or purpose of the work, though data may be presented in a less than completely effective format or some parts of the explication may be uneven.
<b>Analyze and present numerical data or observable facts in this field.</b>		Mathematical portrayal is inappropriate or inaccurate. Calculations attempted are unsuccessful or incomplete.	Mathematical portrayal is only partially appropriate or accurate. Calculations are essentially successful.	Mathematical portrayal is competent and appropriate. Calculations attempted are successful and comprehensive.
<b>Distinguish between scientific fact and pseudo-science.</b>		Attempts to describe assumptions.	Explicitly describes assumptions.	Explicitly describes assumptions and provides a compelling rationale for why each assumption is appropriate. Shows awareness that confidence in final conclusions is limited to the accuracy of the assumptions.
<b>Form informed conclusions about findings in this field.</b>		Attempts to apply information presented in mathematical forms but draws incorrect conclusions about what the information means.	Applies accurate information presented in mathematical forms, but occasionally makes minor errors.	Demonstrates accurate understanding of information presented in mathematical form.

*This rubric was created using the Association of American Colleges and Universities (AAC&U) Quantitative VALUE Rubric. Retrieved from <https://www.aacu.org/va/ue-rubrics>*