

Generic Rubrics: Rubric Components for the Categories of the Achievement Chart

Each of these charts specifies a list of components that may apply to a specific problem or set of problems or tasks. In building a rubric, decide which categories of the Achievement chart are addressed by the task. Then choose the specific rows that apply to the task. In some cases, such as in the Knowledge and Understanding, or Application categories, it may be necessary to make the indicators more specific. For instance, it may be necessary to specify which algorithms or concepts are being assessed.

Knowledge and Understanding

The category of Knowledge and Understanding considers how well a student performs particular algorithms or procedures that are being taught. As well, it explores the level at which a student can demonstrate the understanding of a concept, such as: slope, recognition of a sequence, use of finite differences, and so on.

	Level 1	Level 2	Level 3	Level 4
Performance of an algorithm by hand, mentally, or using technology	Some of algorithm performed but may contain inaccuracies.	Most of algorithm performed but may contain inaccuracies.	Algorithm performed completely; most computations generally correct.	Algorithm performed completely, accurately, and verified or supported.
Demonstration of understanding of a concept	Attempted solution demonstrates limited understanding of concept.	Solution demonstrates some evidence of understanding of concept.	Solution demonstrates sufficient evidence to show understanding of concept.	Detailed solution demonstrates thorough understanding of concept.

Application

Application deals with the selection and appropriate use of a strategy or tool. For instance, a student may choose the appropriate tool by selecting the formula for arithmetic series to solve a problem. They use it appropriately when they can determine the values for the variables that must be substituted and can then evaluate the expression.

	Level 1	Level 2	Level 3	Level 4
Selection of a tool or strategy to solve a problem	Tool selected is only partially appropriate to the context of the question.	Tool selected is generally appropriate to the question.	Tool selected is appropriate and relates to the context of the question.	Tool selected is appropriate and efficient and relates to the broadest context of the question.
Use of a selected tool or strategy	Selected tool/strategy is used with some inaccuracies.	Selected tool/strategy is used but may contain minor errors.	Selected tool/strategy is used correctly.	Selected tool/strategy is used correctly and is verified or supported.