

Formal Reasoning (R1) Rubric

	4 (Exemplary)	3	2	(1) Developing
<p>Inductive and Deductive Reasoning Understand the difference between induction and deduction and demonstrate familiarity with basic methods of assessing inductive strength or deductive validity.</p>	Completely accurate description of each type of reasoning and thorough understanding of assessment of strength/validity	Accurate description of each type of reasoning; surface level understanding of assessment of strength/validity	Inaccurate description of one or both types of reasoning; incomplete understanding of assessment of strength/validity	Description of each type of reasoning is not included; limited understanding of assessment of strength/validity
<p>Formal Representation Understand and make use of symbolic and abstract representations.</p>	Shows understanding of all parts and uses terminology properly	Shows understanding but using natural or imprecise language	Proper terminology but incomplete understanding (missing 'essence')	Misused terminology or definitions
<p>Logical Demonstrations Solve problems that require rigorous logical demonstrations with multiple steps.</p>	Demonstration is correct, efficient and shows proper detail in all parts	Demonstration is logical and complete but makes some small mistakes	Good logic and overall reasoning, but either several small steps or one big step is wrong or missing	The overall argument lacks logical order or the steps are unsupported