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| **Scientific Practice** | **In Progress** | **Proficient** | **Mastered** | **Incomplete** |
| **Critique the reasoning of others** | I understand and can explain my peers’ ideas, conjectures, and approaches. | I examine and discuss the strengths and weaknesses of my peers’ solutions, conjectures, or argument. | I compare and contrast my peers’ various solution strategies, conjectures, arguments, and special cases/conditions. | I do not engage in this practice. |
| **Attend to precision** | I use clear definitions in discussion with my peers and in their own reasoning. | I strategically use definitions and symbols to explain reasoning to my peers and in their own work. | I examine claims and make explicit use of definitions and symbolic language to explain reasoning to my peers and in their own work. | I do not engage in this practice. |
| **Look for and express regularity in repeated reasoning** | I notice obvious patterns, and use if/then reasoning strategies to explain obvious patterns. | I look for and explain subtle patterns, and choose to repeatedly use if/then reasoning strategies. | I discover deep, underlying relationships (i.e. uncover a model, equation or graph by repeating calculations) to look for patterns and shortcuts, to generalize and to apply to other similar problems. | I do not engage in this practice. |

**Scientific Thinking Rubric**