Name:	Date:
Name.	Date:

**A**-7

## **Thinking General Scoring Rubric**

Criteria	Level 1 Level 2		Level 3	Level 4  • applies the steps of an inquiry/problem solving process effectively and considers extensions	
Apply the processes of inquiry and problem solving	applies the steps of an inquiry/problem solving process with significant assistance	applies the steps of an inquiry/problem solving process with some assistance     applies the steps of an inquiry/problem solving process effectively			
Explore an inquiry or problem	explores a few aspects of the inquiry/problem with major prompts and gathers data that are related but inappropriate	explores some aspects of the inquiry/problem with major prompts and gathers some data that are appropriate	explores the inquiry/ problem without assistance and gathers all data that are appropriate and significant	explores the inquiry/ problem very effectively and gathers data that are appropriate and significant, even considering the extreme cases	
Formulate a hypothesis and/or logical argument	formulates a hypothesis and/or argument that is related to a few aspects of the problem/inquiry	formulates a hypothesis and/or argument that is related to some aspects of the problem/inquiry	formulates a hypothesis and/or logical argument that is related to the significant aspects of the problem/inquiry	formulates a hypothesis and/or logical argument that is related to all aspects of the problem	
Prepare a model to represent a mathematical problem/inquiry (e.g., charts, graphs)	prepares a model that partially represents the mathematical problem/ inquiry with assistance	prepares a model that appropriately represents part of the mathematical problem/inquiry with some assistance	prepares a model that appropriately represents the mathematical problem/inquiry	prepares a model that comprehensively represents the mathematical problem/inquiry	
Manipulate the data and transform the mathematical model	selects appropriate tools with significant help and applies a few strategies that rarely lead to a solution	selects appropriate tools with some help and applies some strategies that sometimes give answers of some accuracy	selects appropriate tools and applies strategies that almost always give accurate answers	selects the most appropriate tools and applies strategies that always lead to correct and elegant solutions	
Make inferences, draw conclusions, and make justifications	explanations have a very limited relationship to the inquiry/problem solving process	explanations have some relationship to the inquiry/ problem solving process	explanations are consistently related to the inquiry/problem solving process	explanations are directly related to the inquiry/ problem solving process and are clear and precise	

Comments:			