

Name: _____

Date: _____

Thinking General Scoring Rubric

Criteria	Level 1	Level 2	Level 3	Level 4
Apply the processes of inquiry and problem solving	<ul style="list-style-type: none"> applies the steps of an inquiry/problem solving process with significant assistance 	<ul style="list-style-type: none"> applies the steps of an inquiry/problem solving process with some assistance 	<ul style="list-style-type: none"> applies the steps of an inquiry/problem solving process effectively 	<ul style="list-style-type: none"> applies the steps of an inquiry/problem solving process effectively and considers extensions
Explore an inquiry or problem	<ul style="list-style-type: none"> explores a few aspects of the inquiry/problem with major prompts and gathers data that are related but inappropriate 	<ul style="list-style-type: none"> explores some aspects of the inquiry/problem with major prompts and gathers some data that are appropriate 	<ul style="list-style-type: none"> explores the inquiry/problem without assistance and gathers all data that are appropriate and significant 	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> formulates a hypothesis and/or argument that is related to a few aspects of the problem/inquiry 	<ul style="list-style-type: none"> formulates a hypothesis and/or argument that is related to some aspects of the problem/inquiry 	<ul style="list-style-type: none"> formulates a hypothesis and/or logical argument that is related to the significant aspects of the problem/inquiry 	<ul style="list-style-type: none"> 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)	<ul style="list-style-type: none"> prepares a model that partially represents the mathematical problem/inquiry with assistance 	<ul style="list-style-type: none"> prepares a model that appropriately represents part of the mathematical problem/inquiry with some assistance 	<ul style="list-style-type: none"> prepares a model that appropriately represents the mathematical problem/inquiry 	<ul style="list-style-type: none"> prepares a model that comprehensively represents the mathematical problem/inquiry
Manipulate the data and transform the mathematical model	<ul style="list-style-type: none"> selects appropriate tools with significant help and applies a few strategies that rarely lead to a solution 	<ul style="list-style-type: none"> selects appropriate tools with some help and applies some strategies that sometimes give answers of some accuracy 	<ul style="list-style-type: none"> selects appropriate tools and applies strategies that almost always give accurate answers 	<ul style="list-style-type: none"> selects the most appropriate tools and applies strategies that always lead to correct and elegant solutions
Make inferences, draw conclusions, and make justifications	<ul style="list-style-type: none"> explanations have a very limited relationship to the inquiry/problem solving process 	<ul style="list-style-type: none"> explanations have some relationship to the inquiry/problem solving process 	<ul style="list-style-type: none"> explanations are consistently related to the inquiry/problem solving process 	<ul style="list-style-type: none"> explanations are directly related to the inquiry/problem solving process and are clear and precise

Comments:
