

SCIENCE INQUIRY RUBBRIC - GRADES 3-4
BARRINGTON PUBLIC SCHOOLS

CRITERIA	4 Exceeds the standard	3 Meets the standard	2 Almost meets the standard	1 Does not meet the standard
Problem	<ul style="list-style-type: none"> ○ Formulates testable questions ○ Makes a reasonable prediction/hypothesis based on prior knowledge ○ Designs in-depth investigations that test hypothesis (if applicable) 	<ul style="list-style-type: none"> ○ Formulates questions ○ Makes a reasonable prediction/hypothesis ○ Designs investigations that test hypothesis (if applicable) 	<ul style="list-style-type: none"> ○ Attempts to formulate questions ○ Makes a prediction/ hypothesis ○ Attempts to design investigations to test hypothesis (if applicable) 	<ul style="list-style-type: none"> ○ Does not formulate questions ○ Does not make a prediction/hypothesis ○ Makes little attempt to design investigations to test hypothesis (if applicable)
Materials	<ul style="list-style-type: none"> ○ Uses appropriate tools ○ Accurately and precisely uses appropriate techniques 	<ul style="list-style-type: none"> ○ Uses appropriate tools ○ Uses appropriate techniques 	<ul style="list-style-type: none"> ○ Uses some appropriate tools ○ Uses some appropriate techniques 	<ul style="list-style-type: none"> ○ Does not use appropriate tools ○ Does not use appropriate techniques
Activity/ Experiment	<ul style="list-style-type: none"> ○ Conducts and extends investigations ○ Accurately collects data and effectively organizes it ○ Makes quality observations 	<ul style="list-style-type: none"> ○ Conducts investigations thoroughly ○ Accurately collects data ○ Makes quality observations 	<ul style="list-style-type: none"> ○ Conducts investigations ○ Collects data ○ Makes observations 	<ul style="list-style-type: none"> ○ Does not conduct investigations ○ Collects incomplete or insufficient data ○ Makes few or inaccurate observations
Conclusion	<ul style="list-style-type: none"> ○ Analyzes and interprets data to draw conclusions using scientific language ○ Effectively communicates an understanding of ideas by making accurate claims based on observations and evidence ○ Thoroughly critiques investigation 	<ul style="list-style-type: none"> ○ Analyzes and interprets data to draw conclusions ○ Communicates an understanding of ideas by making claims based on observations and evidence ○ Critiques investigation 	<ul style="list-style-type: none"> ○ Attempts to analyze and interpret data, but may not draw conclusions ○ Attempts to communicate an understanding of ideas by making claims that may or may not be based on observations and evidence ○ Attempts to critique investigation 	<ul style="list-style-type: none"> ○ Does not analyze or interpret data ○ Does not communicate an understanding of ideas. ○ Does not critique investigation

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Level 3 - Meets the standard - Indicates general competence in all standards/benchmarks
Level 2 - Almost meets the standard - Indicates general competence in most standards/benchmarks with difficulties in some
Level 1 - Does not meet the standard - Indicates difficulties in a majority of standard/benchmarks

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