

SCIENCE INQUIRY RUBBRIC - GRADES 5-6
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 tools precisely ○ Uses sophisticated and extended techniques ○ Safely uses tools and techniques 	<ul style="list-style-type: none"> ○ Uses tools appropriately ○ Uses appropriate techniques ○ Safely uses tools and techniques 	<ul style="list-style-type: none"> ○ Uses some tools appropriately ○ Uses some appropriate techniques ○ Sometimes uses tools and techniques safely 	<ul style="list-style-type: none"> ○ Does not use tools appropriately ○ Does not use appropriate techniques ○ Does not use tools and techniques safely
Activity/ Experiment	<ul style="list-style-type: none"> ○ Conducts and extends investigations ○ Considers experimental design ○ Makes quality observations ○ Accurately collects data 	<ul style="list-style-type: none"> ○ Conducts investigations thoroughly ○ Considers experimental design ○ Makes quality observations ○ Accurately collects data 	<ul style="list-style-type: none"> ○ Conducts investigations ○ Attempts experimental design ○ Makes observations ○ Collects data 	<ul style="list-style-type: none"> ○ Does not conduct investigations ○ Does not follow experimental design ○ Makes few or inaccurate observations ○ Collects incomplete or insufficient data

Level 4 - Exceeds the standard - Indicates competence in all standards/benchmarks and exceptional performance in a few
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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Conclusion	<ul style="list-style-type: none"> ○ Effectively communicates an understanding of ideas ○ Accurately represents, analyzes and interprets data ○ Makes an accurate claim based on observations and relates it to class and beyond investigation ○ Supports claims with the most appropriate data or evidence ○ Thoroughly critiques investigation 	<ul style="list-style-type: none"> ○ Communicates an understanding of ideas ○ Represents, analyzes and interprets data ○ Makes an accurate claim based on observations ○ Supports claims with appropriate data or evidence ○ Critiques investigation 	<ul style="list-style-type: none"> ○ Attempts to communicate an understanding of ideas ○ Represents data ○ Makes a claim ○ Supports some claims with data or evidence ○ Attempts to critique investigation 	<ul style="list-style-type: none"> ○ Does not communicate an understanding of ideas ○ Represents data insufficiently ○ Does not make a claim ○ Does not support claims with data or evidence ○ Does not critique investigation
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