

Performance Indicators

Level 1: Achievement falls much below provincial standards.

Level 2: Achievement approaches provincial standards.

Level 3: Achievement meets provincial standards.

Level 4: Achievement surpasses provincial standards.

Criteria	Level 1	Level 2	Level 3	Level 4
Initiating and Planning <ul style="list-style-type: none"> states hypothesis related to the data lists questions to guide inquiry selects effective tools and strategies 	<p>Student formulates hypotheses and/or scientific questions to guide inquiry or research with limited effectiveness.</p> <p>Student selects appropriate tools and strategies with limited effectiveness.</p>	<p>Student formulates hypotheses and/or scientific questions to guide inquiry or research with some effectiveness.</p> <p>Student selects appropriate tools and strategies with some effectiveness.</p>	<p>Student formulates hypotheses and/or scientific questions to guide inquiry or research with considerable effectiveness.</p> <p>Student selects appropriate tools and strategies with considerable effectiveness.</p>	<p>Student formulates hypotheses and/or scientific questions to guide inquiry or research with a high degree of effectiveness.</p> <p>Student selects appropriate tools and strategies with a high degree of effectiveness.</p>
Performing and Recording <ul style="list-style-type: none"> identifies dependent and dependent variables organizes and displays data for analysis modifies plans as preliminary analysis requires 	<p>Student conducts inquiries, adapting or extending procedures as required with limited effectiveness.</p> <p>Student gathers, organizes, and records data with limited effectiveness.</p>	<p>Student conducts inquiries, adapting or extending procedures as required with some effectiveness.</p> <p>Student gathers, organizes, and records data with some effectiveness.</p>	<p>Student conducts inquiries, adapting or extending procedures as required with considerable effectiveness.</p> <p>Student gathers, organizes, and records data with considerable effectiveness.</p>	<p>Student conducts inquiries, adapting or extending procedures as required with a high degree of effectiveness.</p> <p>Student gathers, organizes, and records data with a high degree of effectiveness.</p>



Criteria	Level 1	Level 2	Level 3	Level 4
Analyzing and Interpreting <ul style="list-style-type: none"> relates results of analysis to initial hypothesis analyzes possible sources of error draws and justifies conclusions 	<p>Student analyzes and interprets data to determine whether the evidence supports the initial hypothesis with limited accuracy.</p> <p>Student identifies possible sources of error, bias, or uncertainty with limited accuracy.</p> <p>Student draws conclusions based on inquiry results and justifies conclusions with limited effectiveness.</p>	<p>Student analyzes and interprets data to determine whether the evidence supports the initial hypothesis with some accuracy.</p> <p>Student identifies possible sources of error, bias, or uncertainty with some accuracy.</p> <p>Student draws conclusions based on inquiry results and justifies conclusions with some effectiveness.</p>	<p>Student analyzes and interprets data to determine whether the evidence supports the initial hypothesis with considerable accuracy.</p> <p>Student identifies possible sources of error, bias, or uncertainty with considerable accuracy.</p> <p>Student draws conclusions based on inquiry results and justifies conclusions with considerable effectiveness.</p>	<p>Student analyzes and interprets data to determine whether the evidence supports the initial hypothesis with a high degree of accuracy.</p> <p>Student identifies possible sources of error, bias, or uncertainty with a high degree of accuracy.</p> <p>Student draws conclusions based on inquiry results and justifies conclusions with a high degree of effectiveness.</p>



Criteria	Level 1	Level 2	Level 3	Level 4
Communication <ul style="list-style-type: none"> communicates hypothesis, results, analysis, and conclusions uses language and scientific conventions effectively includes appropriate precision and accuracy in results 	<p>Student communicates procedures, results, and conclusions using an appropriate format with limited effectiveness.</p> <p>Student uses appropriate numeric, symbolic, and graphic modes of representation, and appropriate units of measurement with limited effectiveness.</p> <p>Student expresses the results of calculations with limited accuracy.</p>	<p>Student communicates procedures, results, and conclusions using an appropriate format with some effectiveness.</p> <p>Student uses appropriate numeric, symbolic, and graphic modes of representation, and appropriate units of measurement with some effectiveness.</p> <p>Student expresses the results of calculations with some accuracy.</p>	<p>Student communicates procedures, results, and conclusions using an appropriate format with considerable effectiveness.</p> <p>Student uses appropriate numeric, symbolic, and graphic modes of representation, and appropriate units of measurement with considerable effectiveness.</p> <p>Student expresses the results of calculations with considerable accuracy.</p>	<p>Student communicates procedures, results, and conclusions using an appropriate format with a high degree of effectiveness.</p> <p>Student uses appropriate numeric, symbolic, and graphic modes of representation, and appropriate units of measurement with a high degree of effectiveness.</p> <p>Student expresses the results of calculations with a high degree of accuracy.</p>

