



Georges P. Vanier Science Rubric

	(1) Not Meeting	(2) Ideas	(3) Connections	(4) Extensions
Stem 1: Understands and makes connections between concepts <i>Definition:</i> <i>Scientific literacy: theories, laws, models, concepts, connections and principles</i>		Student can explain and summarize scientific literacy. Student can demonstrate understanding by rephrasing and relating scientific concepts.	Student can analyze and apply scientific literacy. Student can classify and categorize concepts using scientific literacy.	Student can justify, modify , and/or prove scientific literacy.
Stem 2: Analyzes and solves problems through scientific reasoning <i>Definition:</i> <i>Scientific reasoning: planning, predicting, recording, analyzing, and interpreting (The Scientific Method)</i>		Student can demonstrate and recall scientific reasoning to solve problems.	Student can experiment with , and hypothesize using scientific reasoning to solve problems.	Student can appraise, justify and prove , and theorize using scientific reasoning to solve problems.
Stem 3: Develops skills for inquiry and communication <i>Definition:</i> <i>Inquiry: the study of authentic questions, issues, problems or ideas through wonder, communication, active creation and testing of new knowledge</i> <i>Nature of Science: asking, communicating, interpreting, evaluating, investigating through the use of observation and evidence-based understanding</i>		Student can individually and/or collaboratively select, find , and explain concepts using the nature of science for inquiry. Student can demonstrate their understanding of the framework of science.	Student can individually and/or collaboratively use, model, organize and evaluate concepts using the nature of science for inquiry. Student can elaborate their understanding of the framework of science.	Student can individually and/or collaboratively create, justify , and defend concepts using the nature of science for inquiry. Student can support, influence and defend their understanding of the framework of science.
Stem 4: Explores scientific events and issues in society and the environment <i>Definition:</i> <i>Science, Technology and Society: The relationship between the use of science for solving practical problems that arise from human needs and that scientific development takes place in a societal and cultural context. This can be observed through stewardship, sustainability, possible career connections, quality of life, and innovation.</i>		Student can recall and demonstrate the relationship between science, technology and society.	Student can identify, conclude, compare , and test for the relationships between science, technology and society.	Student can assess, hypothesize , and defend the relationship between science, technology and society.

