

<b>S.W.I.M.A.S. Rubric</b>		1	2	3	4
Questioning – Investigable and Researchable		Student generated questions are not connected to the topic.	Student generated questions are on topic.	Student generated questions are on topic and require rigorous thinking.	Student generated questions promote deeper conceptual understanding of the scientific principles related to the topic.
Observations	A. Qualitative/Quantitative	Makes a few basic observations and measurements.	Observations and measurements are related to the question.	Observations and measurements required a variety of senses and tools.	Observations and measurements reflect conceptual thinking.
	B. Subjective/Objective	Observations include subjective information such as inferences rather than direct experience.	Observations are the direct result of experiences but limited to the most obvious.	Observations are the direct result of experiences and include multiple senses and tools	Observations are the direct result of experiences and the choice of tools and senses reflect conceptual thinking.
Evidence	A. Supports Claim	Gathers data but is not evidence to support the claim.	Gathers data that partially supports the claim or makes claims based on insufficient evidence.	Evidence clearly supports the claim with learner explanation.	Outside observer follows evidence to come up with same/similar claim.
	B. Reaches Beyond Classroom	Data is limited to that collected in the classroom during the current investigation and is not evidence to support the claim.	Evidence is limited to that collected in the classroom during the current investigation.	Evidence includes prior classroom and/or real world connections.	Requires complex research and/or investigation.

