

Strand 1 Rubric

	4 points per PO	3	2	0-1	Students Score
Concept 1	<p>Consistently</p> <p>PO1. Differentiate among a question, hypothesis, and prediction.</p> <p>PO 2. Formulate questions based on observations that lead to the development of a hypothesis.</p> <p>PO 3. Locate research information, not limited to a single source, for use in the design of a controlled investigation.</p>	Often	Some Times	Failed to	
Concept 2	<p>Consistently</p> <p>PO 1. Demonstrate safe behavior and appropriate procedures (e.g., use and care of technology, materials, organisms) in all science inquiry.</p> <p>PO 2. Design an investigation to test individual variables using scientific processes.</p> <p>PO 3. Conduct a controlled investigation using scientific processes.</p> <p>PO 4. Perform measurements using appropriate scientific tools (e.g., balances, microscopes, probes, micrometers).</p> <p>PO 5. Keep a record of observations, notes, sketches, questions, and ideas using tools such as written and/or computer logs.</p>	Often	Some Times	Failed to	
Concept 3	<p>PO 1. Analyze data obtained in a scientific investigation to identify trends.</p> <p>PO 2. Form a logical argument about a correlation between variables or sequence of events (e.g., construct a cause-and-effect chain that explains a sequence of events).</p> <p>PO 3. Evaluate the observations and data reported by others.</p> <p>PO 4. Interpret simple tables and graphs produced by others</p> <p>PO 5. Analyze the results from previous and/or similar investigations to verify the results of the current investigation..</p> <p>PO 6. Formulate new questions based on the results of a completed investigation.</p>	Often	Some Times	Failed to	
Concept 4	<p>PO 1. Choose an appropriate graphic representation for collected data: • line graph • double bar graph • stem and leaf plot • histogram</p> <p>PO 2. Display data collected from a controlled investigation.</p> <p>PO 3. Communicate the results of an investigation with appropriate use of qualitative and quantitative information.</p> <p>PO 4. Create a list of instructions that others can follow in carrying out a procedure (without the use of personal pronouns)</p> <p>PO 5. Communicate the results and conclusion of the investigation.</p>	Often	Some Times	Failed to	Total: <hr/>