## **Scientific Literacy Evaluation Rubric**

Scientific Literacy: Graduates can apply fundamental scientific principles and methods of inquiry to understand the impacts of scientific research and technology.

A. Demonstrates an understanding of core scientific concepts and appropriate terminology.						
Behavior Emerging		Behavior Developing		Behavior Present		
Uses core concepts and appropriate		Uses core concepts and		Uses core concepts and		
terminology:		appropriate terminology:		appropriate terminology:		
<ul> <li>Never or rarely</li> </ul>		<ul> <li>Sometimes</li> </ul>		<ul> <li>Consistently / Always</li> </ul>		
Many errors		<ul> <li>Some errors</li> </ul>		<ul> <li>Few or no errors</li> </ul>		
<ul> <li>Ambiguous explanations and /</li> </ul>		<ul> <li>Incomplete</li> </ul>		<ul> <li>Clear and complete</li> </ul>		
or improper usage		explanations or usage		explanations and usage		
0	1	2	3	4	5	N/A

B. Demonstrates the ability to collect or examine information and data.							
Behavior Emerging	Behavior Developing		Behavior Present				
Able to collect and examine information and / or data:  • Utilizes irrelevant information and / or data  • Omits relevant information and / or data  • Unable to examine information and / or data	information and data:		identifie: informat data • Complet				
0 1	2	3	4	5	N/A		

C. Demonstrates the ability to evaluate, analyze and interpret data.							
Behavior Emerging		Behavior Developing		Behavior Present			
<ul><li>Never or rarely</li><li>Many errors in a</li><li>Unable to evaluation or results</li></ul>	<ul> <li>Many errors in analysis</li> <li>Unable to evaluate data and / or results</li> </ul>		Evaluates, analyzes and interpret:		res and ntly / always o errors nd completely		
0	1	2	3	4	5	N/A	



D. Demonstrates the ability to synthesize both information and data in drawing conclusions.							
Behavior Emerging		Behavior Developing		Behavior Present			
<ul> <li>Synthesizes and concludes:         <ul> <li>Never or rarely able to formulate valid, well supported conclusions</li> <li>Ambiguous conclusions</li> <li>Never or rarely constructs logical connections to other related concepts</li> </ul> </li> </ul>		Synthesizes and concludes:      Sometimes able to formulate valid well supported conclusions     Sometimes provides clear and concise conclusions     Sometimes constructs logical connections to other related concepts		Synthesizes and concludes:  Consistently / Always formulates valid well supported conclusions Provides clear and concise conclusions Constructs logical connections to other related concepts			
0	1	2	3	4	5	N/A	

E. Demonstrates the ability to apply acquired knowledge to scientific aspects of personal and global issues.							
Behavior Emerging		Behavior Developing		Behavior Present			
<ul> <li>Applies acquired knowledge:         <ul> <li>Never or rarely</li> <li>Never or rarely identifies scientific aspects of issue</li> </ul> </li> <li>Never or rarely recognizes ethical implications</li> </ul>		Applies acquired knowledge:		Applies acquired knowledge:			
		ethical imp	lications				
0	1	2	3	4	5	N/A	