Curricular Competencies: Assessment and Reflection

The following proficiency scale will be used for your assessment.

Ex – Extending (4.5+)	E/P – Extending/ Proficient (4)	P – Proficient (3)	D – Developing (2)	E – Emerging (1-0)
Your work shows that you are thinking at a sophisticated level. You are able to think beyond	Your work in this area meets all the expectations and you are beginning to have	Your work meets all the expectations and understanding of the concepts and competencies	You are demonstrating a partial understanding of the concepts and	You are demonstrating an initial understanding of the concepts and competencies relevant to the expected learning (1)
yourself and demonstrate a high level of understanding and connectedness to the material	a more sophisticated understanding of the concepts and competencies.	relevant to the expected learning.	competencies relevant to the expected learning	You are missing the concept or competency all together – most likely because you did not do anything. (0)

5	4.75	4.5	4.25	4	3.75	3.5	3.25	3	2.75	2.5	2.25	2.0	1.75	1 .5	1.25	1	<1
99%	96%	93%	90%	87%	84%	81%	78%	75%	71%	68%	65%	62%	59%	56%	53%	50%	<5 0%

Evidence: Curricular Competency & Proficiency Criteria								
 Curricular Competency: QUESTIONING AND PREDIC Make observations aimed at identifying your Formulate multiple hypotheses and predict multiple hypotheses	own questions about the natural world		E D	Ρ	E/P	Ex		
<u>Working Towards Proficiency (areas needing work):</u>	Proficiency means that I can	<u>Evidence of</u> <u>standards:</u>	meeting o	r exceed	ling			
	 identify my own questions distinguish between independent, dependent and controlled variables 							

- propose an explanation for scientific phenomena
- **predict** multiple outcomes for the investigation
- **create** supported hypotheses and explain why you predict specific outcomes

Working Towards Proficiency (areas needing work):	 Proficiency means that I can select types of data to collect for the investigation demonstrate correct data collection methods classify qualitative and quantitative data 	<u>Evidence of meeting or exceeding</u> <u>standards:</u>
	 choose appropriate SI units with correct significant figures assess relevancy of data & observations to collect construct coherent data & observation tables 	
Curricular Competency: PROCESSING AND ANALY	ZING DATA AND INFORMATION	
between variables, performing calculationConstruct, analyze, and interpret graphs, n		E D P E/P Ex

Curricular Competency: PLANNING AND CONDUCTING

uncertainty, confounding variables, and po	onditions, including identifying sources of error or ssible alternative explanations and conclusions. estigation methods and the quality of their data.	E D P E/P Ex
Working Towards Proficiency (areas needing work): work): Curricular Competency: COMMUNICATION	 Proficiency means that I can identify sources of error in the investigation classify types of error modify investigation to minimize error for future evaluate effect of compounding variables on the investigation generate possible alternatives and conclusions to the investigation propose questions, ideas & methods for future investigations 	E D P E/P Ex
 Communicate scientific ideas and informat Constructing evidence-based arguments ar and representations. 	ion for a specific purpose and audience Id using appropriate scientific language, conventions,	
<u>Working Towards Proficiency (areas needing</u> <u>work):</u>	 Proficiency means that I can define key vocabulary related to scientific idea make connections between theoretical concepts and analyzed data relate key evidence to scientific ideas explain why the chosen evidence supports or rejects the scientific ideas construct arguments to support or reject hypothesis with supporting evidence 	<u>Evidence of meeting or exceeding</u> <u>standards:</u>