Windsor Locks High School

Believe and You Will Achieve

1. Connect the relationship between cause and effect to how it impacts the balance across physical, biological, and/or environmental changes.

Student can	4	3	2	1
1.1: Evaluate evidence to make claims about specific causes and effects.	1 0 0		I can distinguish evidence as a cause or effect.	I can identify a cause and effect relationship.
	I can predict time of death based on the stages of decomposition of a corpse and insect evidence.	determine various causes of	I can distinguish between cause, manner, and mechanisms of death.	I can describe the stages of decomposition of a corpse.

2. Analyze and apply how energy and matter transfers and transforms within and across physical, biological, and/or environmental processes.

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Student can	4	3	2	1
2.1: Construct an evidence-based argument in recreating the events of a crime using blood spatter analysis.		I can construct an evidence- based argument in recreating the events of a crime using blood spatter analysis.	•	I can demonstrate lab techniques to screen for the presence of human blood.
and concerning evidence at a entitle		I can simulate the process of securing, collecting, and documenting evidence at a crime scene.	I can describe how trace evidence is transferred at a crime scene.	I can classify types of evidence.

3. Analyze relationships between structure and function of matter as it applies to physical, biological, and/or environmental systems.

Student can	4	3	2	1
	structures, properties, and/or functions at differing scales.	properties and/or functions	the properties, functions, and/or structures of different	I can list the properties, structures (shape, composition), and/or functions of a material.
3.2: Analyze biological evidence	I can evaluate the validity of biological evidence	I can analyze biological evidence	I can describe biological evidence	I can identify biological evidence

4. Critique patterns to predict behavior and relationships within physical, biological, and/or environmental systems.				
Student can	4	3	2	1
4.1: Analyze patterns in evidence to organize, classify, or ask questions about relationships in the natural world.	nattern based on evidence	classify, or ask questions	I can make an evidence- based claim for a pattern within physical, biological, and/or environmental systems.	I can organize data into a graph/chart to represent patterns.
4.4: Evaluate and compare crime scene evidence to data based evidence	I can reconstruct a crime scene based on evidence	I can evaluate and compare crime scene evidence to data based evidence	I can classify evidence at a crime scene	I can identify evidence at a crime scene

5. Design and conduct controlled physical, biological, and/or environmental systems.				
Student can	4	3	2	1
5.1: I can ask and refine questions to explain natural phenomena.	I can revise my questions based on new information.	I can ask questions to explain phenomena.	I can determine variables involved with phenomena.	I can make observations based off a phenomena.
5.2: I can explain phenomena utilizing relevant information.	I can support my claims with background research.	I can explain phenomena utilizing relevant information.	I can communicate information from various resources.	I can summarize the central idea of a source.
5.3: I can conduct an investigation using a clear, concise procedure.	I can create and conduct an investigation to answer a scientific question.	I can conduct an investigation using a clear, concise procedure.	I can determine the type of data that should be collected during an investigation	I can identify independent variable, dependent variable, and constants in an investigation.
5.4: I can create an appropriate visual representation of data.	I can manipulate data or make inferences about the data.	I can create an appropriate visual representation of data.	I can make a visual representation of data.	I can collect data.
5.5: I can construct an explanation based on evidence	I can connect my explanation to the real-world.	I can construct an explanation based on evidence.	I can summarize supporting evidence	I can state a claim to answer a scientific question
5.6: I can evaluate the reliability and validity of data sets.	I can identify the causes of error in the investigation	I can evaluate the reliability and validity of data sets.	I can assess the validity of data sets/	I can identify sources of error within the investigation.
5.7: I can develop models to support explanations, predict phenomena, analyze systems, and/or solve problems.	I can evaluate the merits and limitations of different models in order to select or revise a model that best fits the evidence.	I can develop models that support explanations, predict phenomena, analyze systems, and/or solve problems.	I can use a model to explain phenomena.	I can select an appropriate model to represent a phenomenon
5.8: I can design a solution to a real- world problem.	I can evaluate a solution to a real-world problem based on prioritized criteria and trade- offs.	I can design a solution to a real- world problem.	I can explain why the real-world problem needs to be solved.	I can identify a problem that can be solved.