**Graduation Standard #1**

1. **Asking scientific questions & defining scientific problems**
* **Students will be able to ask scientific questions about the text they read, observed phenomena, and conclusions drawn from models or scientific investigations.**

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| Proficiency Level | 1 | 2 | 3 | 4 |
| **GS1-A**. Ask questions that arise from careful observation ofphenomena, or unexpected results, to clarify and/orseek additional information. | *I can ask questions based on observation to find more information* | *I can ask questions that arise from careful observation of phenomena, or unexpected results, to seek additional information.*  | *I can ask questions to clarify a model, an explanation, or an engineering problem.* | *I can ask questions to refine a model, anexplanation, or an engineering problem.* |

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| **GS1-C.** Ask questions to determine relationships, includingquantitative relationships, between independentand dependent variables. | *I can determine the difference between independent and dependent variables* | *I can make a relevant prediction of the effects of changing a variable*  | *I can ask questions to determine relationships, includingquantitative relationships, between independentand dependent variables.* | *I can ask questions that can be investigated and form a hypothesis based on a model or a theory* |

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| **GS1-E.** Define a design problem that involves the development of a process or system with interacting components and criteria and constraints that may include social, technical and/or environmental considerations. | *I can define a simple problem that can be solved through the development of a new or improved object or tool* | *I can define a design problem that can be solved through the development of an object or tool or process, includes criteria and constraints* | *I can define a design problem that involves the development of a process or system with interacting components and criteria and constraints that may include social, technical and/or environmental considerations.* | *I can define a design problem that involves the development of a process or system and evaluate interacting components and criteria and constraints that may include social, technical and/or environmental considerations* |