

MSA SCIENCE RUBRIC

LEVEL 3

There is evidence in this response that the student has a *full and complete understanding* of the question or problem.

- The supporting scientific evidence is complete and demonstrates a full integration of scientific concepts, principles, and/or skills.
- The response reflects a complete synthesis of information, such as data, cause-effect relationships, or other collected evidence.
- The accurate use of scientific terminology strengthens the response.
- An effective application of the concept to a practical problem or real-world situation reveals a complete understanding of the scientific principles. *

LEVEL 2

There is evidence in this response that the student has a *general understanding* of the question or problem.

- The supporting scientific evidence is generally complete with some integration of scientific concepts, principles, and/or skills.
- The response reflects some synthesis of information, such as data, cause-effect relationships, or other collected evidence.
- The accurate use of scientific terminology is present in the response.
- An application of the concept to a practical problem or real-world situation reveals a general understanding of the scientific principles. *

LEVEL 1

There is evidence in this response that the student has *minimal understanding* of the question or problem.

- The supporting scientific evidence is minimal.
- The response provides little or no synthesis of information, such as data, cause-effect relationships, or other collected evidence.
- The accurate use of scientific terminology may not be present in the response.
- An application, if attempted, is minimal. *

LEVEL 0

There is evidence that the student has *no understanding* of the question or problem.

- The response is completely incorrect or irrelevant or there is no response.
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* *On the Maryland School Assessment, the application of a concept to a practical problem or real-world situation will be scored when it is required in the response and requested in the item stem.*