

HSA Rubric for Constructed-Response Items

SCIENCE

	Level of Understanding	Synthesis of Information	Use of Supporting Details	Use of Accurate Scientific Terminology	Application of Information*
4	The student demonstrates a FULL AND COMPLETE UNDERSTANDING of the question or problem.	The response reflects a complete synthesis of information.	Pertinent and complete supporting details demonstrate an integration of ideas.	The response is enhanced through the use of accurate terminology to explain scientific principles.	An effective application of the concept to a practical problem or real-world situation reveals an insight into scientific principles.
3	The student demonstrates a GOOD UNDERSTANDING of the question or problem.	The response reflects some synthesis of information.	The supporting details are generally complete.	Mostly accurate terminology is used to explain scientific principles.	The concept has been applied to a practical or real-world situation.
2	The student demonstrates a BASIC UNDERSTANDING of the question or problem.	The response provides little or no synthesis of information.	The supporting details may be incomplete or have minor errors.	Limited accurate terminology is used to explain scientific principles.	The application of the concept to a practical problem or real-world situation is inadequate.
1	The student demonstrates SOME UNDERSTANDING of the question or problem.	The response addresses the question.	The supporting details are only minimally effective.	Little or no accurate terminology is used to explain scientific principles.	The application, if attempted, is irrelevant.
0	The student demonstrates NO UNDERSTANDING of the question or problem. The response is completely incorrect or irrelevant.				

* The Application of Information criteria will only be used when an application is requested in the question item stem.