

Procedural Knowledge: “What you can do”

Achievement Level	Level Descriptor
0	The student does not reach a standard described by any of the descriptors below.
1	The student attempts the process but errors are significant or numerous . The student work is incomplete and omits required aspects important to the process. The student fails to communicate the scientific information to its audience.
2	The student work is complete and some of the work is accurate and even logical . The errors are either significant or numerous enough to effect the overall message or purpose of the process. The student’s work communicates some scientific information.
3	The student work is accurate, complete, logical but is not free of any errors . The errors are neither significant nor numerous enough to effect the overall message but the errors do cause confusion in the audience. The student’s work serves its function and communicates the scientific information but not in a clear and succinct manner.
4	The student work is accurate, complete, logical and free of any errors . The student’s work serves its function and communicates the scientific information clearly and succinctly to its audience.

This rubric addresses the seven science processes in general. All seven science processes: modeling, math, questioning, collecting, analyzing, explaining, and connecting require the student to effectively communicate. Communication might include the use of written words, speech, numbers in some form or another, or even models. As a result I want to include below a rubric for communication itself.

Achievement Level	Level Descriptor
0	The student does not reach a standard described by any of the descriptors below.
1	The student uses a limited range of scientific language correctly . The student attempts to communicate through speech, words, numbers or models but the scientific information is not effectively communicated . When appropriate the student makes little attempt to document sources of information.
2	The student uses a some scientific language correctly . The student communicates scientific information through speech, words, numbers or models but with limited effectiveness . When appropriate the student partially documents sources of information.

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Achievement Level	Level Descriptor
3	The student uses a most scientific language correctly . The student communicates most scientific information effectively through speech, words, numbers or models. When appropriate the student fully documents sources of information.
4	The student uses scientific language correctly . The student communicates scientific information effectively and succinctly through speech, words, numbers or models. When appropriate the student fully documents sources of information correctly .