

Standard: AP.A.01

Grade	Standard	Essential Skills
K	Model daily processes and follow basic algorithms (step-by-step lists of instructions) to complete tasks.	Follow a sequence of instructions to complete a familiar task
1	Model daily processes and follow basic algorithms (step-by-step lists of instructions) to complete tasks verbally, kinesthetically, via a programming language, or using a device.	Complete a new task as detailed by an algorithm
2	Model daily processes by creating and following algorithms (step-by-step lists of instructions) to complete tasks verbally, kinesthetically, via a programming language, or using a device.	Create an algorithm by describing or programming the steps to complete a task.
3	Develop and compare multiple algorithms for the same task.	Compose (independently or collaboratively) two or more algorithms for the same task.
		Examine the differences among algorithms for the same task.
4	Develop, compare, and refine multiple algorithms for the same task	Modify two or more algorithms to complete the same task. Modifications may include finding possible errors (debugging), making instructions more efficient (adding loops if instructions are repeated), etc.
5	Develop, compare, and refine multiple algorithms for the same task and determine which algorithm is the most appropriate.	Evaluate two or more algorithms that complete the same task to determine which algorithm is best suited for the task at hand.
		Justify the choice of which algorithm is most appropriate to complete a task.

Standard: AP.A.01 Skills

These annotations are a collaboration between [Maryland Center for Computing Education](#) and the [Maryland State Department of Education](#).

