Essential Skills for Algorithms & Programming: Program Development (4)

Grade	Standards AP.PD.04	Essential Skills
K	Use correct terminology (e.g., first, second, etc.) in the development of an **algorithm** to solve a simple problem.	Describe the sequence of an **algorithm** using appropriate terminology
1	Use correct terminology (e.g., beginning, middle, end, etc.) and explain choices made during the development of an algorithm and/or **program** to solve a simple problem.	Justify the steps chosen when creating an algorithm
2	Use correct terminology (e.g., debug, program input/output, code, etc.) to explain the development of a program to solve a problem in an **unplugged** activity, hands-on manipulative, or **programming language.**	Describe the goals of a **computer program**. Explain the steps taken in developing a computer program using correct terminology.
3	Communicate and explain **program** development to peers and adults using comments, presentations, and demonstrations.	Using correct terminology, describe the steps taken to develop a **computer program**.
4	Communicate and explain program development to peers and adults using comments, presentations, and demonstrations.	Correlate the steps taken when developing a computer program to the final program produced.
5	Communicate and explain program development to peers and adults using comments, presentations, and demonstrations.	Summarize how choices made during **program development**, including **debugging** and checking **inputs** and **outputs**, contributed to program development and the outcome achieved.

Skills for Standard: AP.PD.04   Grades K-5
These annotations are a collaboration between Maryland Center for Computing Education and the Maryland State Department of Education.