PARK CITY HIGH SCHOOL

Standards-Based Education
Priority Standards

AP Computer Science A

PS 1 Students will use Object-Oriented Program Design, in order to (Strand 1, Standard 1):

- Run problem analysis
- Data abstraction and encapsulation
- Code reuse
- Data representation and algorithms
- Functional decomposition

PS 2 Students will utilize implementation techniques to facilitate Program Implementation. (Strand 2, Standard 1)

PS 3 Students will understand and utilize the following program constructs (Strand 2, Standard 3):

- Primitive types vs. reference types
- Declaration and Constants
- Variables
- Methods and parameters
- Classes
- Interfaces
- Text output using System.out.print and System.out.printing
- Sequential execution
- Conditional execution
- Boolean expressions, short-circuit evaluation, De Morgan's law

PS 4 Students will describe Java library classes and interfaces included in the AP Java Subset. (Strand 2, Standard 3)

PS 5 Students will explain debugging and identify error categories. (Strand 3, Standard 2)

PS 6 Students will be able to run Algorithm Analysis with statement execution counts. (Standard 5)

PS 7 Students will use Standard Data Structures (int, boolean, double, strings, classes, lists, arrays, etc.). (Strand 4)

PS 8 Students will use Standard Operations and Algorithms (Traversals, Insertions, Deletions). (Strand 5)