AP Computer Science

Summer / Winter Break Assignment

Before class begins the following MUST be completed. These are terms used in CS quite frequently. In a notebook you will write down the definition and an example. Your notebook will be checked and returned to you. You will retain the notebook for the duration of class. There is an example on the back of how it could look.

1	Integrated Development Environment (IDE)	26	Class
2	Programming language/ Java	27	Return
3	Identifier	28	Iteration
4	Variable	29	Overloading
5	Key words	30	Conditional statements (if, else if, else)
6	Debug / debugging	31	Constructor
7	Errors - logic, runtime, syntax	32	Parameter
8	Escape Sequence	33	public, private, protected
9	Data Types	34	Void and non-void
10	String, int, double, boolean, char	35	Encapsulation
11	Algorithm	36	getter / setter
12	Declare	37	Scope
13	Initialize	38	Traverse
14	Compiler	39	toString()
15	Mutable / immutable	40	Array – String[], double[], int[]
16	Operators	41	Array default values
17	Compound assignment operators	42	Element(s)
18	Concatenation	43	ArrayList
19	Typecasting	44	for each / enhanced loop
20	declare / initialize	45	Searching
21	Loops – for loop / while/do-while loop	46	Sorting
22	Method	47	2D Array
23	Attributes / Instance Variables	48	Inheritance —— is-a / has-a
24	Object	49	Polymorphism
25	Object-oriented programming (OOP)	50	Recursion

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Here is an example of what it could look like. You will turn in your notebook the first day of class to be checked. You will retain this notebook for class.

Your examples **MUST** be handwritten to receive credit.

Term	Definition	Example
Data Types	Different sized and values stored in a variable. There are primitive and non-primitive types	String – characters in quotation marks ex. "hello" int – whole numbers ex. 85 double – decimal numbers ex. 3.95 char – single character ex. 'A' boolean - true/false
Recursion	A process where a method calls itself to solve a problem / A method calling itself over and over again	<pre>int recursion (time) { if(time = = 0) return; recursion(time - 1) }</pre>