## Flowcharts and Pseudocode 2

 $@2025\ Chris\ Nielsen-{\it www.nielsenedu.com}\\$ 

	List the three cha	racteristics	of a good alg	orithm -	in a wor	d, then e	explain the meaning.
)							
)							
(:)							
	The logical flow essential for the I						label the five blocks ience exam.
	Diagram	I	Name		Diagr	am	Name
)		stai	rt / end	d)			
))				e)			
)) (2)				e)			
	Draw and label the taught in this cou		representatio		e three pro	ogrammi	ing <i>constructs</i> you were
(i)			representatio		e three pro	ogramm	ing constructs you were
		ırse.	representatio			ogramm:	ing constructs you were
(i)		ırse.	representatio			ogramm	ing constructs you were

## Flowcharts and Pseudocode 2

6. Write the correct vocabulary word next to the box that best describes it. If you spell the word incorrectly, you will need to write the word ten times before you receive credit.

	abstraction algor	rithm constant	construct	decompose	flowchart	pseudocode	variable		
a)		a diagrammatic	a diagrammatic representation of an algorithm						
b)	a memory location that stores an unchangeable value								
c)	breaking down a complex problem into smaller, more manageable parts								
d)		a structured, code-like, high-level description of an algorithm							
e)	a memory location to store a value that may change while the program is running								
f)	a precise method for solving a problem								
g)	a smaller part used as a building block								
h)		hiding complexi	ty by focusin	g on the essent	ial features of	a problem			

7.	Given an	arrav	names	that	contains	values	such a	۱ς.
<i>,</i> .	Olven an	i array,	Hames,	uiat	Comanis	varues,	Sucii c	25.

SET names TO [ 'Eason', 'Ethan', 'Sarah', 'Ruby' ]

a)	Write Pearson pseudocode using a count-controlled FOR loop to print the names to the
	display. The code must be able to handle different lengths of arrays.

b) Write code that produces exactly the same results, but uses a FOR  $\,$  EACH loop.

c) Explain why the count-controlled repeat loop is not ideal for this task. (REPEAT <number> TIMES...)