Name:

## **Programming: Operations**

A	Key vocab			
Operand	A number (or string or Boolean) which is to be			
	operated on			
String manipulation	Operating on strings			

В		Unfamiliar operations		
Concatenation		Joins two strings together	":" + "-)"	
Exponentiation		Raises one number to the power of another   2*		2**3
Modulus / mod		Returns the remainder after division	10 % 3 = 1	
Quotient /		Returns the whole number part of the	10 //	3 = 3
floor division		division		
Unary		Only has one operand	-7	

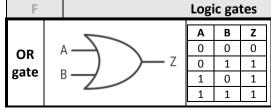
С	Types of operator				
Arithmetic	An operator which turns two	**, /, %, //,			
operator	numbers into a single number with a mathematical process	*, +, -			
Assignment	An operator which assigns a value	<b>=</b> , ⇒			
operator	to a name				
Boolean	An operator which compares	AND, OR,			
operator	Boolean values	NOT			
Comparison	An operator which compares two	>, <, >=,			
operator	numbers	>, <, >=, <=, ==, !=			

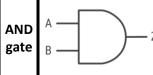
	D	Order of operations			
1	Brackets	Wha first	Whatever is in the brackets is resolved first		
2	Unary	An d	pera	ition with only one <i>operand</i>	
3	Indices	Raising to		o the power of a number	
4	Division	Including		g quotient and modulus division	
5	Multiplication			× or *	
6	Addition			+	
7	Subtraction			-	
8	<b>Comparison</b> And		An c	operation which returns a	
		Bool		lean by comparing two operands	
9	<b>Boolean</b> And		An c	operation which returns a	
		Bool		lean by comparing two Booleans	
10	Assignm	Assignment An o		pperation which assigns a value	
	to a		to a	name	

E		Logic vocab			
Boolean algebra		Mathematical expression of logic circuits			
Logic gate	A co	A component which takes in one or two binary			
	inpu	inputs and produces a single binary output			
Logic circui	it A ci	A circuit made of a combination of logic gates			
Truth table	A ta	A table of inputs and outputs for a logic gate			
	syst	system			

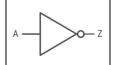
NOT

gate





Α	В	Z
0	0	0
0	1	1
1	0	1
1	1	1



Α	Z
0	1
1	0