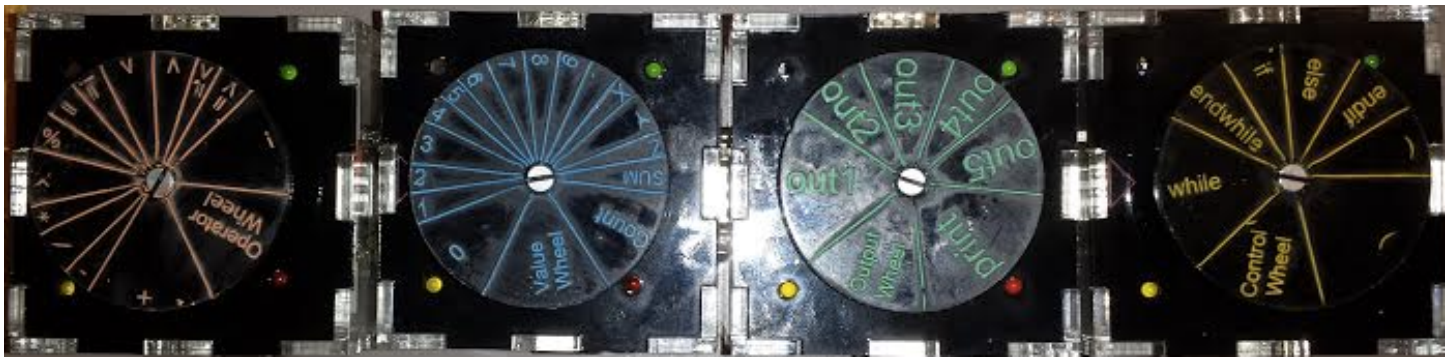
Blocks of Code…



You may be asking yourself –

1. Who are they for?
2. What can they do?
3. How do you "use" them?
4. Why would I/anyone even use them?

1. So first – the blocks are targeted towards elementary to middle school aged children, their teachers & their parents. But hey, you're a big kid right? So let's dig in.

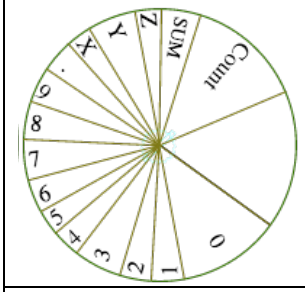
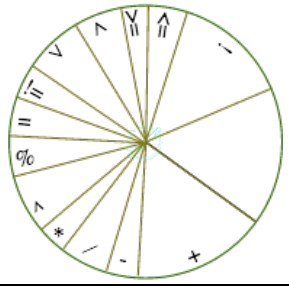
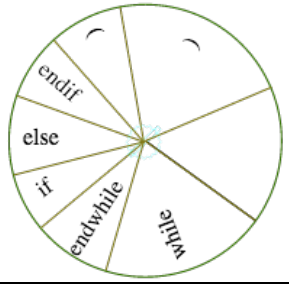
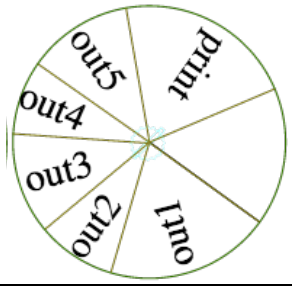
2. The blocks are physical manipulators that allow a user to associate a tangible physical object to an abstract concept – specifically computer programming. The blocks, when connected and "dialed in," create a functional block of code which is then executed.

3. Use of the blocks can vary (flip to see the worksheet) but in a nutshell consider creating sub-50-character programs to reinforce a concept or validate a formula.

4. Why? Did you play with Legos? When is the first time you saw a computer program? What about an algorithm? This exposes children to a world earlier – and uses something tangible – not abstract to do it.

Blocks of Code…

Your have the following blocks available to you

15 Value Blocks	15 Operator Blocks	15 Control Blocks	7 Output Blocks
			
• a variable {x, y, z, Sum, Count}, or • a value from 1-9	• = is equality checking NOT assignment	• if, else & endif • while & endwhile • (&)	• Sends output to specific channel
Sky Blue	Peach	Dandelion	Sea Green

Ultra Quick Start:

Assign the variable x the value of 6:

x	6

Assign the variable y the value of 3.4:

y	3	.	4

Check if y is equal to x and assign the value to z

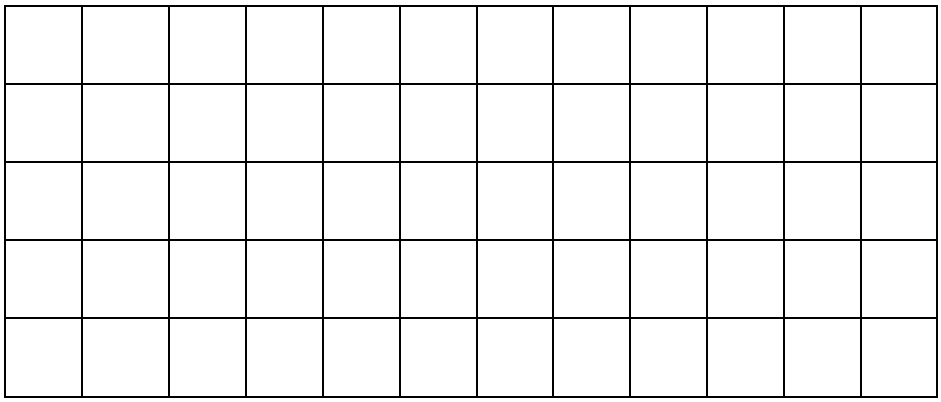
z	(	y	=	x	)

If z is false print y/x

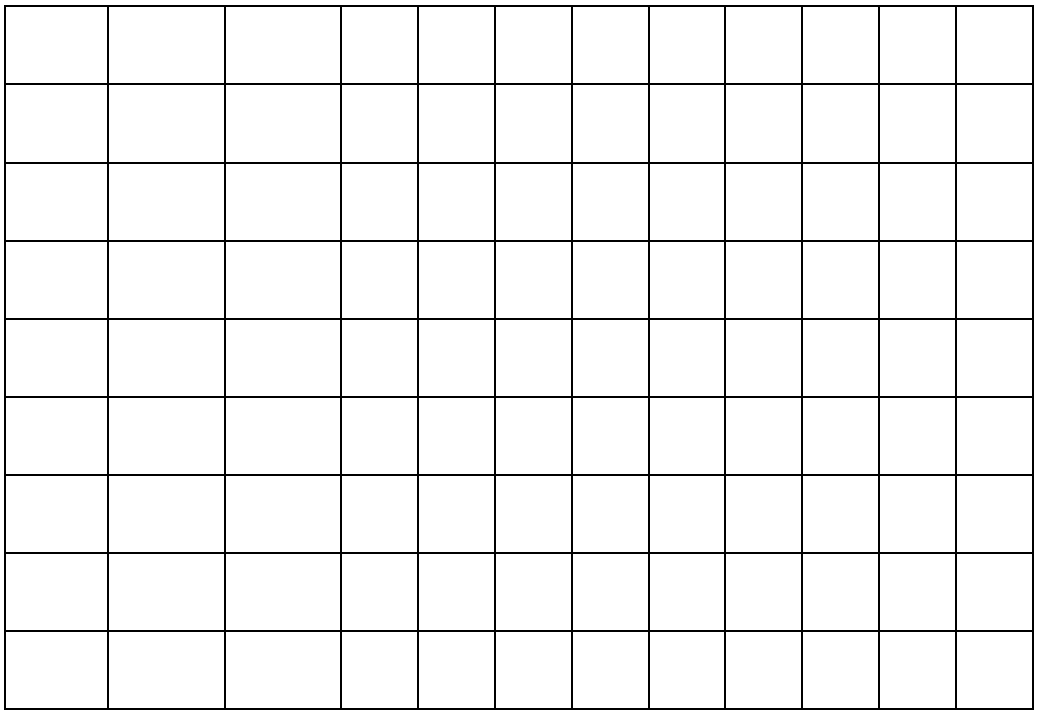
If	(	!	z	)
Print	y	/	x	
Endif				

Blocks of Code…

Exercise #1: Write a program that prints a temperature given in Fahrenheit into Celsius.
How many blocks does it take you?



Exercise #2: Write a program that computes Fibonacci numbers less than 25.
How many blocks does it take you? <50? <25?



Blocks of Code…

Exercise #3: Create a program from scratch using as many blocks as you can.

What does your program do?