


Title: Coding - Lesson 1: Output, Input and Variables

Context of the Activity							
The Big Idea: Learning the foundations of coding							
Prerequisite Knowledge and Skills: <ul style="list-style-type: none"> An account on Scratch https://scratch.mit.edu 	Connections to SOLs: <table> <tr> <td>CS K.1-2</td><td>CS 3.1 - 3</td></tr> <tr> <td>CS 1.1-3</td><td>CS 4.1 - 3</td></tr> <tr> <td>CS 2.1-3</td><td>CS 5.1 - 3</td></tr> </table>	CS K.1-2	CS 3.1 - 3	CS 1.1-3	CS 4.1 - 3	CS 2.1-3	CS 5.1 - 3
CS K.1-2	CS 3.1 - 3						
CS 1.1-3	CS 4.1 - 3						
CS 2.1-3	CS 5.1 - 3						
Materials							
<ul style="list-style-type: none"> Slides - http://bit.ly/2xayOs7 	<ul style="list-style-type: none"> Copy of the Tools of Programming http://bit.ly/csTools 						
Lesson Structure and Activities							
Warm Up [10 min] :Opener: <ul style="list-style-type: none"> Have teachers log into their Scratch accounts Open the starter program: https://scratch.mit.edu/projects/225382471/ <ul style="list-style-type: none"> Run the program by clicking the  icon Change the program: follow the steps in the slides 							
Launch (Engage) [10min] :Teacher Directed Instruction: <ul style="list-style-type: none"> Define - output (see slides) <ul style="list-style-type: none"> Prompt - what examples of output did we see in this program? Lab lecture - see slides - walk the teacher through using input and variables 							
Explore [20min] :Joint/Guided Practice Student Practice: <ul style="list-style-type: none"> Do practice exercises - encourage folks to pick their level - <i>mild, medium or spicy</i> Link: http://bit.ly/2suGOzk 							
Summarize [15min] :Debrief : <ul style="list-style-type: none"> Journal: How does the computer science content in this lesson relate to topics you already teach? Think - pair - share discussion 							