

Intro to Computer Science: Loops

Learning Target :	Today I will learn how to code a For Loop .
Success Criteria:	I have completed all of today's tasks.

DO NOW:

Code	Task
Program 1: System.out.println("Hello World"); System.out.println("Hello World"); System.out.println("Hello World"); System.out.println("Hello World"); System.out.println("Hello World"); Program 2: for (int i = 0; i < 5; i++){ System.out.println("Hello World"); }	Run these two programs, then compare and contrast: Similarities: Differences:

Task 1: [Watch Video](#) then fill in table below

	Question	Answer
1	Why do we use Loops?	
2	What is a FOR Loop?	
3.	When would we use a FOR Loop?	
4.	What is a loop control variable?	
5	How does the loop in program 2 above end?	

Activity: Practice using the value of the index to change an output.

Pennies or hard candies. Groups of three. One person directs what the code is saying , another acts out, the third acts as the output receiver. Rotate roles.

Assume a method, `givePennies(int numPennies);` has been built that passes pennies to another thing, ie the actor to the output receiver (a bit of pseudocode here). Example `givePennies(10)`. Just means give 10 pennies to the receiver.

1	<pre>for (int i = 1; i < 6; i++){ GivePennies(i); }</pre>
2	<pre>for (int i = 2; i < 7; i++){ GivePennies(2*i); }</pre>
3	<pre>for (int i = 1; i < 4; i++){ GivePennies(i*i); }</pre>

Shareout: Explain what you did for each of the three scenarios.

Task 2: Complete the following assignment:

Write a for loop to print the numbers 56 to 70 inclusive (this means it should include both the 56 and 70).