Lesson Plan: Beginning Motion in Scratch

Topic Description: Students learn how to use directional blocks to move a sprite.

# Objectives:

The student will be able to:

* Build basic programs in Scratch.
* Navigate through mazes using Scratch.

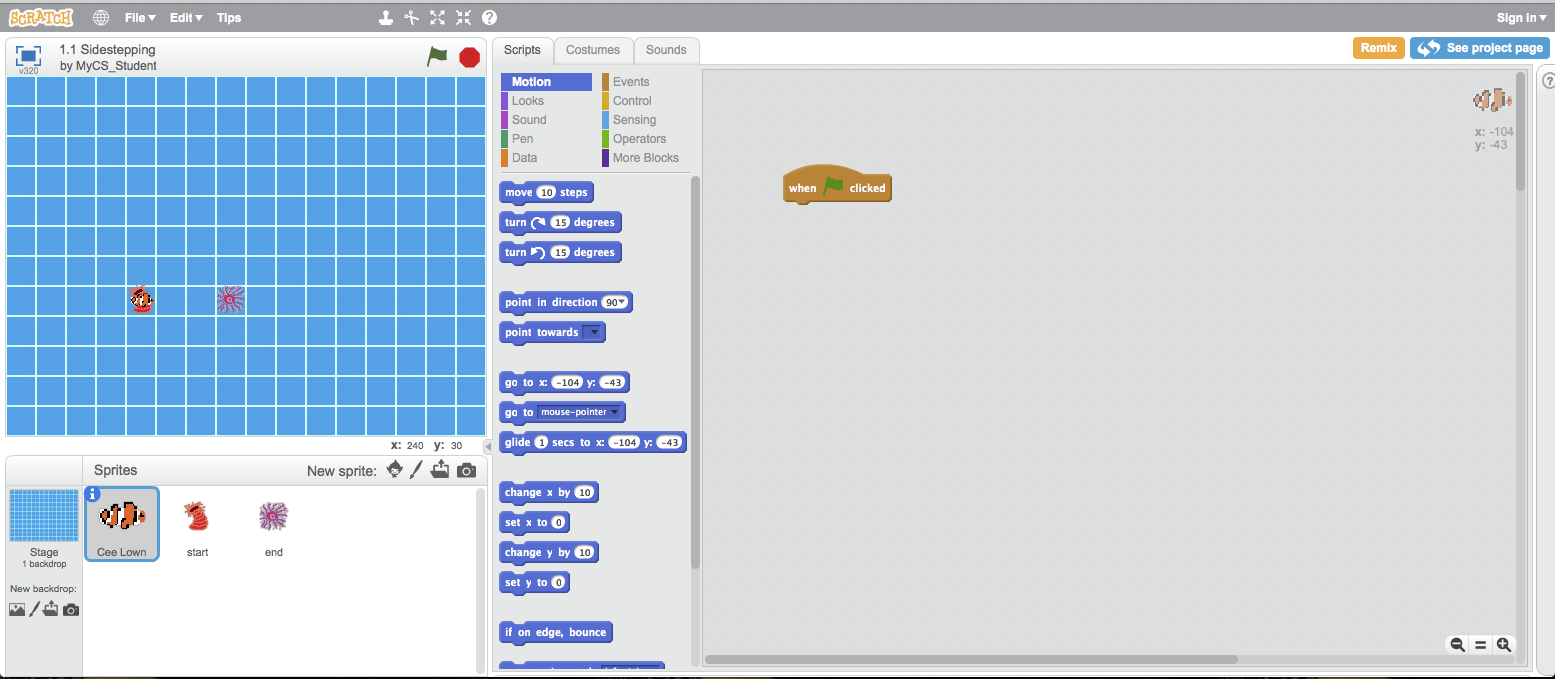
# Outline of the Lesson:

* How to access Scratch (10 minutes)
* Demo Level 1.1 (5 minutes)
* Independent Work in Scratch (15 minutes)
* Repeat Demonstration (5 minutes)
* Independent Work in Scratch (10 minutes)
* Journal Entry (10 minutes)

# Teaching/Learning Strategies:

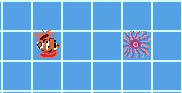
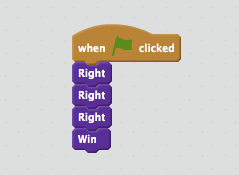
## How to access Scratch

* Have the students go to [www.scratch.mit.edu](http://www.scratch.mit.edu)
* Have them click on “Join Scratch” in the upper-right corner
* Other than a username and password, they will need an email address:
  + Have them use mycsstudent@gmail.com
* Once they are logged in, have them search for MyCS\_Student in the search bar at the top of the page
* The first result of the search will have MyCS\_Student highlighted in blue as the username. Have the students to click the link
* On the next page, have them scroll down until they get to a bar that says “Studios I Curate” and have them click the words that say “view all”
* Once there, tell them to click on World 1-Ocean, then 1.1 One Direction, and finally the “See Inside” button
* They should end up at a screen looking like this:



## Demo Level 1.1

* Open up level 1 and demonstrate how to position blocks to get the solution
* Click the flag to show what a successful run looks like



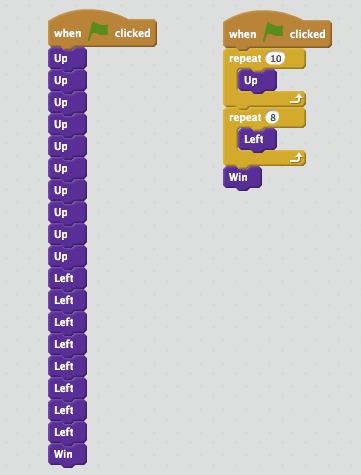
* Have students build the solution successfully by clicking on the green flag

## Independent Work in Scratch

* Let students work through more of the World 1 puzzles

## Demonstrate how Repeat Works

* Using Level 1.9, demonstrate how to use a Repeat block to shorten the code:



## Independent Work in Scratch

* Have the students continue World 1 puzzles
* Encourage those that have finished to go back and use Repeat blocks to solve previous puzzles

## Journal Blog Entry

* Students will answer the question, “what did you learn today”?

Resources:

* <http://scratch.mit.edu>