Overall Assessing: Communication

Assignment 1 (Stairs)

**Goal**: Have a cat draw a staircase with 5 steps. You must use the repeat block.

**Assessing**: Iteration, Breaking down a problem into parts, sequencing

Part A: Draw 1 step

Part B: Draw 5 steps

Assignment 2 (Thinking inside the line):

**Goal:** Make the cat draw line with a slope of 1/2 using the blocks change x and change y. You must make the cat begin at the middle of the screen (0,0)

**Bonus**: Can you do this assignment using the change x value of 25?

**Assessing**: Slope, understanding of x and y values, sequencing, linear relationship, ratio

Assignment 3 Debugging (Could be assignment 1):

**Goal:** If the cat touches (20, 50) have it pop up a speech bubble that says “I have found the secret treasure”

**Assessing**: problem solving, finding errors, logical reasoning, reading code

Assignment 4 (Outside the Rectangle):

**Goal:**

**Part 1:** Have the cat draw a rectangle with a perimeter of 4x.

**Hint**: you have to create a variable called x

**Part 2:** Have the draw a rectangle with a perimeter of x

**Hint**: you have to create a variable called x

**Rubric**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | 1 | 2 | 3 | 4 |
| Code Explanation |  |  |  |  |
| Does it Work |  |  |  |  |
| Code Logic |  |  |  |  |
| Math Concept |  |  |  |  |