Scratch Problems to Solve

Project I. Moving, Drawing, Flag Button to Start

Open a new project. Save it, calling it colorboxes.

Using move, turn, pen down, pen up, clear

- 1. Draw a box.
- 2. Draw an X.
- 3. Draw your initials.

Adding forever, repeat

- 1. Have the cat draw your box over and over and over without stopping.
- 2. Draw your box using just one **move** and one **turn** bar.

Adding Pen commands

- 1. Change the color of the pen each time the box is drawn.
- 2. Change the size of the pen each time the box is drawn.
- 3. Reset the pen size to what you started with.
- 4. Have your box line grow for ten turns around the square, then shrink for 10.

Add wait, use a repeat inside a repeat

1. Slow down the cat so you can see the pen changes by adding wait.

Add when green flag clicked

1. Add the green flag control bar so that your entire script runs when you click the flag button.

Project II. Moving to Specific Locations

Open a new project. Save it, calling it catmoves.

er.
er.
an see the
ection
_ secs to x: ked.

Project III. Changing the Looks of a Sprite

Open a new project. Save it, calling it catlooks.

Making	а	new	costume
111011119	×		CCCtairio

Using **change**

- 1. Click on the costume tab.
- 2. Click on the **copy** button.
- 3. Use the drawing tools to change something about the cat.
- 4. Click on **OK** when you are done.
- 5. Click on the **scripts** tab to write directions again.

Using set cos	tume to	, point awa	y from edge

- 1. Build a script using set costume to costume1, move 10 and wait .1, then add set costume to costume2, move 10 and wait .1.
- 2. Add point away from edge.
- 3. Put them inside a **forever** command.
- 4. Start them with a **green flag** control bar.

o	,	90 0.120	<i>y</i>
Add a change with the different effects	effect by and with different	bar inside the forever . numbers.	Experiment
2. Try out a change	size by	bar the same way.	

size by

effect by change

3. Think about how you could use negative numbers and a second set of commands to undo the changes.

Using say _____, and say nothing.

- 1. Add a say hello inside the forever. Change the hello to your own words.
- 2. Try out the **say nothing** to get the words to go way. Find the best place for the speech bubble to appear, then for the **say nothing** to take it away.