

### **SUMMARY AND STANDARDS**

#### Summary:

In this lesson, students will use the CoCo graphic organizer to begin animating a set of instructions in Scratch.

#### 2017 VDOE ELA Standards

The student will use effective communication skills in a variety of settings.

- Use active listening strategies including but not limited to making eye contact, facing the speaker, asking questions, and summarizing.
- b) Orally summarize information expressing ideas clearly.

The student will read and demonstrate comprehension of nonfiction texts

The student will write in a variety of forms to include narrative, descriptive, opinion, and expository

#### **CS Standards:**

The student will construct sets of step-by-step instructions (algorithms), both independently and collaboratively a) using sequencing; b) using events.

Today, we are moving on to Unit 2, where we will learn about something called abstraction, a key process you will use in both computer science and writing.

## MATERIALS AND RESOURCES NEEDED FOR THIS LESSON:

- Personal Computer
- Access to the Internet
- Teacher slide deck
- Student Unit 2 Slide Deck
- Your written instructions (in the sequencing graphic organizer) from last time
- Coco Link
- Scratch link





#### Reminder:

In this lesson, every student should be **assigned a story in CoCo** using **Level 3**.

The story should be titled "Unit 2 Story."

Each student should save their work using this naming strategy: "Student Name + Unit # + Descriptor", for example, "Johnny Unit 2 Story"

You will need....[read slide]

### WRITING IN COCO: ADDING TEXT TO COCO

Steps:

- 1. Log In to CoCo
- 2. Select "level 3" from the drop-down menu
- 3. Type your instructions from the last lesson into the text boxes provided.



In a moment, we will log into CoCo level 3.

We already know how to do this but, as a reminder, here are the steps (read slide)



Use this video to explain how to put instructions into the first column of CoCo

LEVEL 3 IN COCO		Story: Level 3 Story		
	What I Want to Do:	What I Want to Do:		
Do I need to add a start block?		No Yes No Yes No Yes		
Do I need to add a character or object?	Do I need to make my character talk?	No Yes		
		No Ves		
De Loged to add ar change a background?	ODo I need to make my character talk?	No Yes		
Do Fileeu to aud of clialiye a backyrouliu:	Obo I need to make my character think something?	No Yes		
	Do I need to create a costume?	No Yes		
Do I need to make my character talk?	<b>_</b>			
	ODo I need to add or change a background?	No Yes		
De Lange data and ha much superior that this has superior this wo	Obo I need to make my character talk?	No Yes		
Jo I need to make my character think something?	Do I need to make my character think something?	No Yes		
	Do I need to create a costume?	No Yes		
On I need to create a costume?				
bo i neca to create a costanie.		No Yes		
	Do I need to make my character talk?	No Yes		
Do I need to switch a costume?	Do I need to make my character think something?	No Yes		
	Solution of the context of the conte	NO TES		
Do I need my character or chiest mayo?				
DO I Need my character of object move?	Obo I need to make my character think something?	No Ye		
	Do I need to create a costume?	No Ye		
Do I need my character or object to turn and then	Do I need to switch a costume?	No Ye		
	Do I need my character or object move?	No Yes		

Before we get started, let's take a quick look at the level 3 features in CoCo. In level 3 of Coco, you will be introduced to some new ways to use Scratch to animate your explanatory writing. Let's look at these new questions together. Remember, you will always need to add a start block or your code will not work!

# VIDEO OF HOW TO HOVER OVER The blocks and see what they do.

Play this video to explain that students can see what the blocks do by hovering over the block and playing the linked video.

MODELING COCO		My Ideas:	
COCO COMPOSE & COOR DEPICT-CS	How to	First First, get all your materials. You will need - list your materials here.	Do I n Do I n Do I n backgroun
<ol> <li>Log In to CoCo</li> <li>Select "level 3" from the drop-down menu</li> </ol>	My topic: Introduce the reader to your topic	Then Then, list the first step in your process.	backgroun Do I n Do I n something Do I n Do I n
<ol> <li>Type your instructions from the last lesson in the text boxes provided</li> </ol>	Then,  Next, list the next sliep in your process.  Next,  Last, list the list state in your process.	Next Next, list the next step in your process.	backgroun Do I n Do I n something Do I n Do I n
	East,	Usst Last, list the last step in your process.	Do I n backgroun Do I n Do I n something



Make sure you are using CoCo!

## PAUSE TO WORK IN COCO

## LOOK BLOCKS

Do I need to hide my character?

Do I need to show my character?

Do I need my character to appear in a particular size?

Do I need to change the color of my character?

In CoCo, you may see that there are questions about what you want your sprite to do. Some of these questions are about how you want your sprite to look. Today we are going to learn how some of these blocks work so you will be ready to use them in a future lesson.

These all have to do with the appearance or look of your sprite, so they are the purple look blocks. Let's learn how they work....









MEMBER: SWITCH COSTUME BLOCK ( <u>Explainer video</u> )				
COLORER - File Edit 🌞 Tutorials U	Untilsed-2 63 See Project Page	Save Now 🗂 🔀 ejmanchester 🗸		
Costantes (e Sounds)	en Riccolar patriccolare bi cable			
Verdes Verdes	es the appearance of you	see Cat ++ x # \$ \$ y .4 Store O Stor 10 Dector 10 Subsection 10		

If needed, remind students they learned how to switch their sprite's costume in U1L2.

Play Video, and explain: It may not be obvious but this cat looks different from the one automatically in scratch. This one looks like it's running. The "change costume" block in Scratch changes the appearance of your sprite. You can use it to change the appearance of your sprite. This block makes things simpler because we want have to use as many sprites in our project.

Video link:

https://www.dropbox.com/s/jdt70o0l0neyk8c/SwitchCostumeCoCo\_Nov16.mp4?dl=0

### CODE AN ANIMATION OF A WORD

Steps:

- 1. Choose your backdrop
- 2. Remove the cat sprite
- 3. Add the letters of your initials, word, or name-one sprite per letter!
- 4. Pick a sound and look block for each letter
- 5. Challenge: change the pitch effect on at least ONE of your letters

Optional tutorial video: https://scratch.mit.edu/projects/editor/?tutorial=name

## WRAP UP: ANY VOLUNTEERS TO SHARE THEIR ANIMATIONS?

Review concepts from today and ask for volunteers to share their work.