

PLANNING AND WRITING WITH COCO LEVEL 3

3RD & 4TH GRADE





Lesson created by the GMU-ODU C SforAll Team. For more information about this lesson and our C SforAll initiative, contact Dr. Amy Hutchison at achutchison1@ua.edu

SUMMARY AND STANDARDS

Summary:

In this lesson, students will be using Coco, the graphic organizer, to code an animation in Scratch of their instructional writing.

2017 VDOE ELA Standards:

The student will continue to read and demonstrate comprehension of nonfiction texts

The student will write for a variety of purposes.
e) Use strategies for organization of information and elaboration according to the type of writing.

The student will use available technology for reading and writing.

CS Standards:

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

The student will break down (decompose) a larger problem into smaller subproblems, independently or collaboratively.

Today we are going to use Coco, the graphic organizer, to help guide us in animating our instructional writing in Scratch.

MATERIALS AND RESOURCES NEEDED FOR THIS LESSON:

- Personal Computer
- Teacher slide deck
- Access to the internet
- Scratch for CS First or Scratch
- Coco
- CoCo level 3, column one (filled in)

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"

In order to do today's lesson, you will need..

COCO CONTINUES TO HELP US!

Today, you will use Coco to help you code your instructional animation in Scratch!

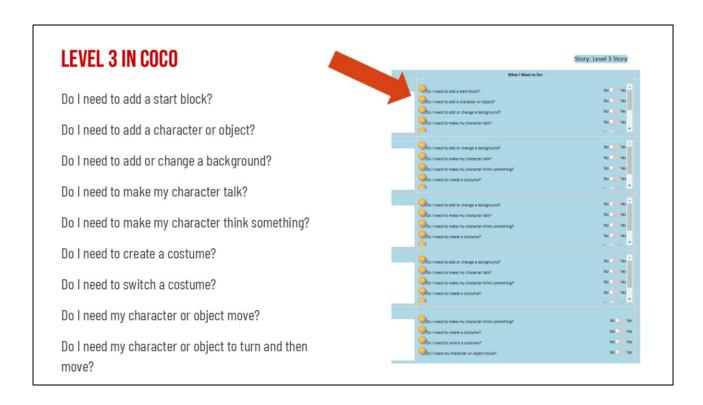
- 1. Open a tab with Coco
- 2. Open a tab with <u>Scratch for CS First</u> or Scratch online
- Use column 3 of Coco to find the blocks in Scratch we need for each step.
- 4. Check off the self-monitoring before we move to next step.



DEPICT-CS

[Read slide] Let's look at the first two steps now...

PAUSE HERE AND LOG INTO COCO AND SCRATCH



In level 3 of Coco, you will be introduced to some new ways to use Scratch to animate your explanatory writing. In this level, you have more options for how you will animate your writing in Scratch. Let's look at these new questions together. These questions are from our very first row in Coco. (Read questions) In level 2, you did not need to decide what happened in the first row but in level 3 you will. Remember, you will always need to add a start block or your code will not work!

WIDEO MODEL

Video on CoCo level 3 and Scratch

Story: Recipe						
My Ideas:	What I Want to De:	Blocks & Icons I will need:	Self-monitoring:			
First, get all of year materials. You will nextl kersoms, water, and sugget.	Do I need to add a start block! Out need to add a character or object! Out need to add or charge a bockground! Out or need to sudd or or though a bockground!	No. Yes	I found the stan block. It created a character (sprint). I arbited a lackground. I made my character talk.			
Then Then the become into july s.	Us i need to add or change a background? This i need to make my character talk? This insend to make my character talk? This insend to make my character think samething? This invend to make my character think samething? No. We Use I need to send a contament? No. We	No. 198 ur and to 2 second suith retirent to (palant) a	made my character talk. switched a costume.			
Next, add water and sugar.	Obs I need to add or charge a harkground! Obs I need to make my character tails? Obstanced to make my character think something! Obstanced to create a continuer Obstanced to restar a continuer Obstanced to restar a continuer	No	truste my chase to falk, switched a continue			
I sel Last, stor the organization together.	Dus I need to add or charge a tackground! Dus I need to make my character stalk! Dus I need to make my character shalk something! Dus I need to make my character shink something! Dus I need so note a condumer. No. 19	No. Was not found to 2 would petit colore to colored *	I made my characser safe, I wells heef a contume.			
Great pobs	Obs I need to create a consumer! Obs I need to switch a consumer Obs I need to make my character think something!	No. This Continues Teleforment Content of Security Continues of Contin	created a costume changed a costume. I made my sprite think something.			

DID YOU ADD YOUR WRITING TO COCO COLUMN 1?

INSTRUCTIONS

- Add your writing to CoCo column 1
- ☐ Plan your animation
- Use CoCo to pick Scratch blocks for your animation





DEPICT-CS

GET READY TO CREATE!

Now that you've got more Scratch commands in your toolkit, we are going to start planning out what we are going to do in Coco and, eventually Scratch, to animate our explanatory writing from last time. We are going to use another graphic organizer to plan.

In a moment, your teacher will give you a planning document to start planning out each step. It includes a list of the options in CoCo's "What I want to do" column because this tool will help you keep track of your commands as you begin working in Scratch.

HOW TO USE THE PLANNING DOCUMENT

Instructions

Use this document to plan your Scratch animation.

In each box below, draw a picture of how you'd like to illustrate each part of the story you've written.

But remember: use only the Scratch blocks in CoCo. They are:

- Add or change a background
- Make my character/sprite talk
- Make my character think something
- Create a costume
- Switch a costume
- Move my object or character
- Turn my object or character and then move them

My ideas:	What I Want to Do:
First,	Do I need to add or change a background? Y / N Do I need to make my character/sprite talk? Y / N Do I need to make my character think something? Y / N Do I need to create a costume? Y / N Do I need to switch a costume? Y / N Do I need to switch a costume? Y / N Do I need to move my object or character? Y / N Do I need to turn my object or character and then move them! Y / N
Then,	Do I need to add or change a background? Y / N Do I need to make my character/sprite talk? Y / N Do I need to make my character frish something? Y / N Do I need to create a costume? Y / N Do I need to create a costume? Y / N Do I need to switch a costume? Y / N Do I need to switch a costume? Y / N Do I need to move my object or character? Y / N Do I need to turn my object or character and then move them? Y / N

To use the planner, you will draw out what you want to happen in each step of your writing. Then, think about what you will need to accomplish this step.

Link:

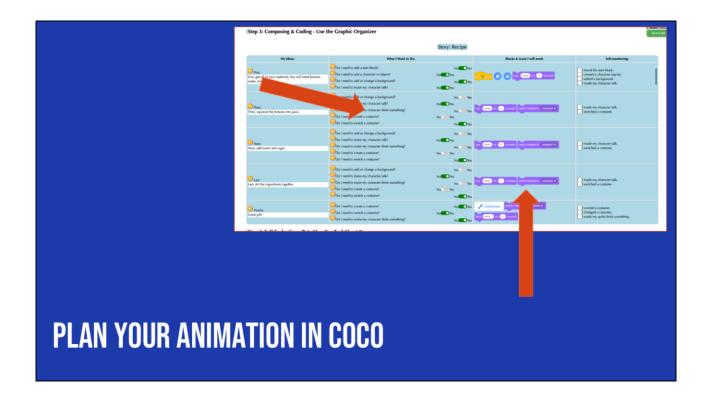
 $\frac{https://www.dropbox.com/s/i8e3s7zz5e01a88/U3L2_Storyboard\%20for\%20Scratch\%}{20Animation.docx?dl=0}$

PAUSE HERE AND WORK ON YOUR PLANNER

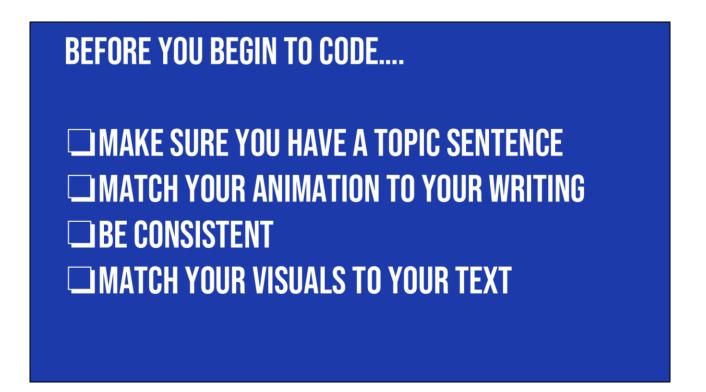
STORYBOARDING!



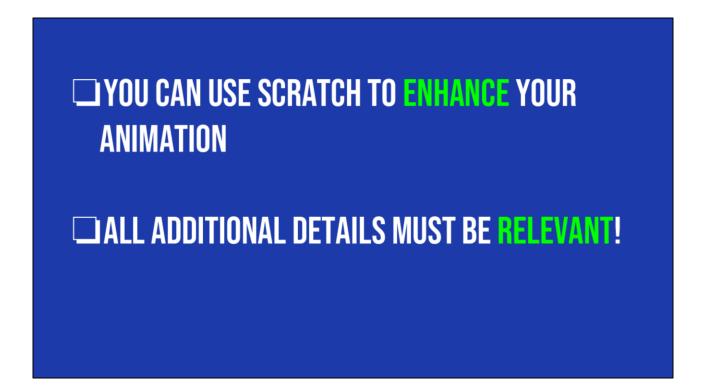
Great job! Hopefully you were able to complete your planner and you have a good idea how your animation might look in scratch.



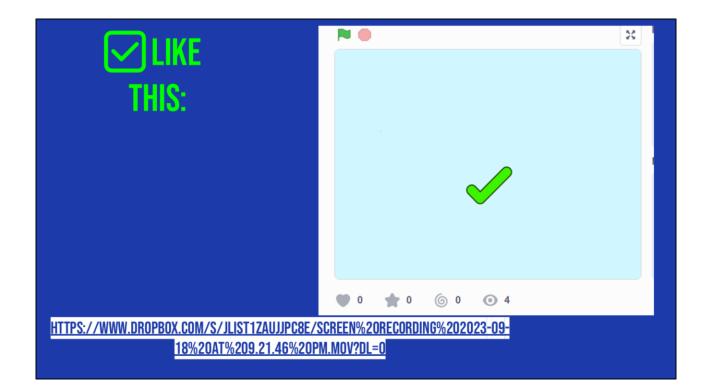
Now that you've got a vision for how you want your animation to look, use CoCo to find the right Scratch blocks. But remember! Make sure your animation closely matches your writing.



In Unit 1, we learned that we want to a) match your animation to your writing, b) be consistent, and c) make sure all the visuals in the frame make sense given what you have written in your text.



Remember how we searched for unique sprites and backdrops? And we also learned how to upload our own sprites and sounds. So there are many ways we can use Scratch to enhance our animations, or make them more exciting! We can add more details to our animations as long as we make sure that the details are relevant.



For example, here's an animation of the hot chocolate recipe that does a really great job enhancing the recipe with additional details to help the viewer imagine a person actually making hot chocolate! Let's take a look and see what they did.

[play/run scratch project]

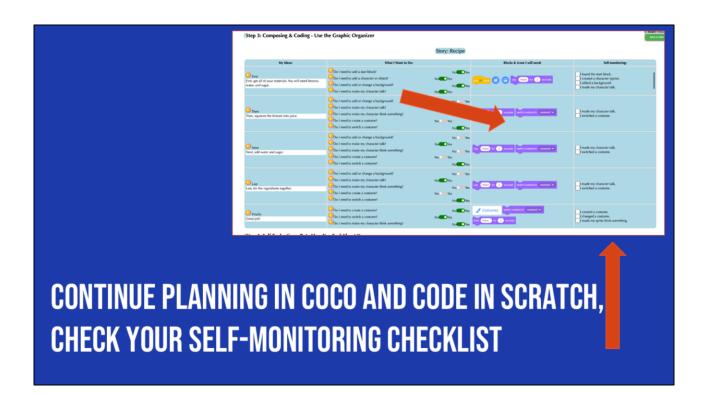
The first thing we notice is that this computer scientist added images of real-life materials rather than cartoons. This detail enhances the animation but does not change the meaning. They also drew an arrow to show where the mix would go into the cup. Flnally, they coded the objects to move and simulate the actual "making" of the drink. But nothing about the meaning changed! And it was not distracting.

HOWEVER! TOO MANY VISUALS CAN BE CONFUSING

Let's look at another example, where the additional details were not relevant and thus confusing.....



All the written text is the same but the images don't match the text. For example, why is there a dragon in the screen? Why are they at the beach? And why does it show a glass of water instead of hot chocolate? It may seem funny but to a new viewer, it would be very confusing. We don't want that.



With that in mind, continue using CoCo to plan your animation. Please be creative but make sure your details are relevant and enhancing! Not confusing.

OPTIONAL INSTRUCTIONS

- Watch <u>this video</u> on how to add a back drop, sprite, and other information from first row of CoCo
- Add content from the first row of CoCo to Scratch as practice
- Watch <u>this video</u> about how to transfer the remaining content from CoCo to Scratch and use the self-monitoring column
- Transfer the rest of your content from CoCo to Scratch.

LAST STEP, SELF EVALUATION

Pause here and work! (20-30 minutes)?



Self-Evaluation Tutorial

Step 4: Self-Evaluation - Rate How You Feel About It					
How do I feel about my written story today?	unhappy	neutral	happy		
How do I feel about using CoCo today?	unhappy	neutral	happy		
How do I feel about coding today?	unhappy	neutral	happy		
How do I fael about my Scratch project today?	\odot	$\stackrel{(:)}{\sim}$	\odot		

SHARE YOUR WORK:

- Find a partner and share your animation.
- Share what you learned and something you might want to try differently.

PAUSE AND SHARE

REVISE YOUR WRITING & SCRATCH PROJECT

Based on your peer's feedback!

IMPORTANT!! SHARE YOUR .SB3 FILE FROM CS FIRST TO COCO

- 1. Create the file in CS First
- 2. In the Scratch editor, find the word "File" in the top-left corner.
- 3. Click on "File" menu and you'll see some choices pop down.
- 1. Choose "Save to your computer." This will download your Scratch project.
- I. Look in your "Downloads" folder. That's where your saved project might be.
- 1. Go to the CoCo website and log in to your account. https://wego.gmu.edu/scratchgo/login.php
- 1. Click proceed on the correct story in CoCo.

 Ready To Work on Your Stary!

 (Locked) Vow 1

 second story

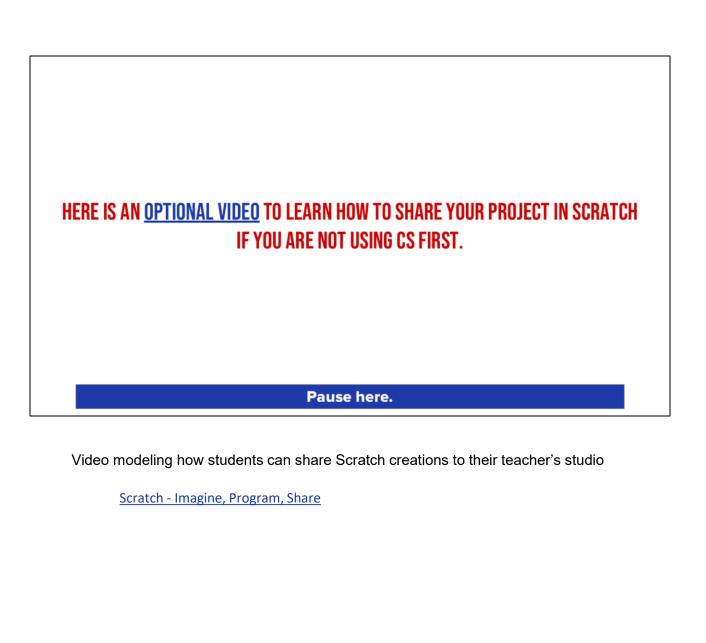
 Story 3

 Proceed
- Navigate to the section of CoCo where you can upload your project. (only sb3 type and 10Mb max).
 Uploading your coding file (only sb3 type and 10Mb max):

Stave

I. Click "Save".

Model how students can share Scratch creations to their teacher's studio



OPTIONAL SCRATCH CHECKLIST IF NOT USING CS FIRST

- ✓ I LOGGED INTO SCRATCH
- ✓ I SHARED MY PROJECT
- ✓ I ADDED MY PROJECT TO MY TEACHER'S STUDIO

WRAP UP: CAREERS IN TECH



Review today's lesson and wrap up with this video.