

CS+Earth Lesson Plan:

[Week 4 Lesson 2](#)

Note to Teachers: [Teach from the web page and use it as your lesson guide](#). You do not have to be the expert in the room. You get to be the lead learner, modeling life-long learning for your students throughout these CS+Earth lessons! There is not a detailed script, because your goal is to talk as little as possible and to focus on facilitating CS Talk between students.

Review: **Week 4 Lesson 2** web page and make sure you have the **Week 4 Student Hyperdoc** available for students in Google Classroom.

Review Learning Goal with Students: A **Nested repeat** is one repeat inside the other

[ELD Supports for the Lessons](#)

WARM UP 1	This section is designed to encourage discussion among students; plan to facilitate pairs, groups, or whole class. Read the objective aloud at the top of the page ("Today we will...". Then, project and display the Warm Up . Open both the Slide: Nested Repeat Anchor Chart slide (make a copy) and the Video: Nested Repeat Anchor Chart . Project and play the video for the students or use for your own understanding. Now students will answer the prompting questions. They should use the sentence frames in their discussion. Optional: Students can type their response in the student hyperdoc for this lesson. <i>*See the ELD Support document for more information...</i>
WE DO 2	Open and project the Scratch Project: Fun with Shapes and use TIPP&SEE (Title, Instructions, Purpose, Play; Sprites, Events, Explore) to learn about nested repeats with students. Have students show and tell you how to explore the Scratch project. Remember, teachers are projecting and students are directing teacher actions. (Students are not using computers during the We Do).
TURN & TALK 3	This section is designed to encourage discussion among students; plan to facilitate pairs. Project and display the TURN & TALK . Using the content from the video, have students ask and answer the prompting questions. Tell students to use the sentence frames in their discussion to follow up with their partner and keep the conversation going. Tell students to use the Slide: Nested Repeat Anchor Chart as a guide for their discussion. Optional: Students can type their response in the student hyperdoc for this lesson. <i>*See the ELD Support document for more information...</i>
UCSD DOES 4	Project and play the video: Use GACC to plan code changes. (Students are not using computers during the UCSD DOES).
WE DO 5	Open and project for students both the Worksheet: Plan slide and the Scratch Project: Fun with Shapes . Using what was modeled in the video, have students show and tell you how to complete the slide. Use GACC to understand and play the Scratch project. Remember, teachers are projecting and students are directing teacher actions. (Students are not using computers during the We Do).
YOU DO	Group students into pairs. Ask them to open the Week 4 Student Hyperdoc from your Google classroom. Tell students to open the Scratch Project: Fun with Shapes page in the student hyperdoc . Working in pairs, read the instructions from this section to the students and have them complete this task. When the

[CS+Earth Home Page](#)

6	students are done, have them save the Scratch project onto their computers.
REFLECT & SHARE 7	This section is designed to encourage discussion among students; plan to facilitate pairs, groups, or the whole class. Project the Reflect & Share section and have students discuss what they learned about nested repeats. They may also be sharing their project and explaining their process. Tell students to use the sentence frames in their discussion. Students can reference the Slide: Nested Repeat Anchor Chart as a guide. Optional: Students can type their response in the student hyperdoc for this lesson. <i>*See the ELD Support document for more information...</i>