SCUSD Common Core Mathematics Lesson Planning Guide

| o o 1 | Approx. time: 1 day | CCSS-M Standards: K.NBT.1; K.CC.2; K.CC.3; K.CC.4; K.CC.5 |
|---|---|---|
| A. Focus and Coherence | | B. Evidence of Math Practices |
| Numbers can be composed and decomultiple ways Numbers can be made from tens and Numbers can be made from tens and Numbers can be represented with oldrawings, or with equations Students will be able to Record composition and decomposition and decompositions and drawinge Compose and decompose numbers for student prior knowledge: Single cubes represent ones A rod represents a ten Knowing 5 from using a 5-frame Knowing 10 from using a 10-frame | d ones bjects, tions of gs | What will students produce when they are making sense, persevering, attending to precision and/or modeling, in relation to the focus of the lesson? "This shows 14 because the rod is 10 and there are 4 cubes." "This 14 because there are 2 rows of 5's and 5 and 5 make ten. Then there are 4 more, so 10 and 4 make 14." "The answer is 14 because you said there is 1 ten and 4 ones. 10 and 4 is 14." "I know it's 14 because I counted ten, eleven, twelve, thirteen, fourteen." |
| Which math concepts will this lesson lead to Adding and subtraction double digits digits and double digits with double Automaticity with addition facts | s with single | |
| Essential Question(s) How can composing and decomposing Why should students be able to com Formative Assessments Ask individual students how many cut | pose and decor | npose numbers with automaticity? |
| Anticipated Student Preconceptions/Miscon If the rod is broken up into singles, the lift the singles were rearranged or cove. Students count eleven as one-teen or students count eleven as one-teen or materials/Resources linking cubes (19 cubes per student or 10-frame for teacher demo/warm-up) | he quantity chan vered after the in or ten-one; twelv or pair) | nitial count, the quantity changes. |

C. Rigor: Conceptual Understanding, Procedural Skills and Fluency, and Application

What are the learning experiences that provide for rigor? What are the learning experiences that provide for evidence of the Math Practices? (Detailed Lesson Plan)

Warm Up

Show 8 on a 10-frame one at a time in three different configuration (#1: 5 on top and 3 on bottom center; #2: 4 on the right and 4 on the left; #3: 5 on top and 3 on bottom left justified) **FXAMPLES:**

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- Flash visual for 3 seconds (to prevent students from counting). Ask students, "How many did you see?" Allow for a few students to answer, but do not confirm their answers. Then flash the same image again so students have a chance to revise their answer. Ask students, "How many did you see?" Allow for students to tell you how many they saw. Next, ask them, "How did you see 8?" Show students the visual so students can explain their answers.
- Rearrange the items into the 2nd example. Repeat steps from previous.
- Do the same for example 3.

Lesson

- Explain to the class: "Today we are going to think about numbers 11 through 19."
- Show linking cubes: demonstrate 1-cube, and 10-stick
- Show the 10-stick and ask, "How many is this?" Break-up the ten cubes and ask again, "How many is this? How do you know this is still 10?" Regroup the 10-stick and repeat as needed.
- Show a 10-stick and one cube (11), ask, "How many do I have now?" Repeat with 12 if needed.
- Give students 19 linking cubes each or in pairs.
- Model how to show 14 with your cubes as students do the same with their cubes. If needed, students can count from 1-14, but the ten should remain in a stick while the ones are separated. Repeat with 16 if needed.
- Have students model with their linking cubes:
 - \circ 1 ten 8 ones; 18
 - o 1 ten 5 ones; 15
 - o 1 ten 3 ones; 13 continue as needed

Questions to ask students if they answer incorrectly or without an explanation:

- Why?
- How do you know?
- Can you tell me more? Can you show me or tell me how you figured out the answer?
- What happens when I break up the 10-stick into individual cubes?
- If you know the 10-stick is ten, what can you do with/ know about the other cubes?
- Show students a model of 19 and have them decide what the number is. Students can create their own model if needed. After students decide the answer is 19 ask them to explain how they know/saw it.
 - Repeat with 14, 17, ... as needed.

Closure

Teacher asks students, "If I have one 10-stick, and 6 cubes how many do I have?"

Give student a chance to figure out the answer with their cubes.

As students answer, ask them, "How do you know it is 16? What if the 10-stick was broken up, how many do I have now? How do you know?"

Suggested Homework/Independent Practice

Practice sheet: identifying and showing numbers with ten and some ones.

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Homework
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Name ____



