In this lesson, students will compare various quantities up to 10. Objects will be placed in two groups and then the total number of items in each group will be compared to determine if the number of items in one group is greater than, less than, or equal to the number of items in the other.

**COMMON CORE STANDARD(S)**

**K.CC.C.6** Identify whether the number of objects in one group is greater than, less than, or equal to the number of objects in another group, e.g., by using matching and counting strategies.

**K.CC.C.7** Compare two numbers between 1 and 10 presented as written numerals.

**DURATION**

Two 45-minute classroom periods

Engage and Explore, Explain, Elaborate page 1—one 45-minute classroom period

Elaborate page 2, Evaluate—second 45-minute classroom period

**MATERIALS**

Ten frames and various counters of the same shape and size.
Set of number cards 1-10.

**ENGAGE AND EXPLORE**

To fully meet the goals of this lesson, students will need opportunities to explore the relationship between two quantities up to ten. Activate prior knowledge with counting exercises. Following the warm-up (Activity 1), use the ten-frame activity (Activity 2) to lead a discussion and build understanding of the terms greater than, less than, and equal to.
Students should have some type of manipulatives that they can physically count and put into and out of groups. If manipulatives are not available, show students how to draw some representation of the objects.

Activity 1: As the students count aloud from 1–10, model the count using cubes or other counters. Clear the display and repeat the modeling activity several times. Next, place the number cards in a hat or bucket and select one card to show to the students. Ask them to model the number using counters. Put the card back in the bucket, reshuffle, then select another card and repeat the modeling activity.

Activity 2: Group students in pairs and give each child a ten-frame and 10 buttons or other counters. Repeat the counting and modeling exercise described in Activity 1, but this time place the objects in the ten-frame as students count.

EXPLAIN

WATCH THE GENERATION GENIUS COMPARING QUANTITIES UP TO 10 VIDEO AS A GROUP
Facilitate a conversation using the Discussion Questions.

ELABORATE

Direct students to use their new understanding to complete the practice problem worksheets. Page 1 contains bare mathematical problems to solidify understanding of the process. Page 2 contains application problems for students to apply the process to solve real-world problems.

EVALUATE

Have students gather in groups of 2 or 4 to compare and discuss their answers to the problems. Allow students enough time to communicate with their peers about their process and their thinking. Encourage students to use correct mathematical language when discussing their process. Have each group choose two questions they want more information about, or they want to discuss as a class.

When groups are ready, take questions from students. Encourage groups to answer questions brought up by other groups.

Students can play the online Kahoot! quiz game located below the video. It provides downloadable scores at the end of the quiz game. Alternatively, you can use the paper quiz, or the exit ticket questions. All these resources are located below the video in the assessment section.