

# Lesson Plan for KNP Activity

## T 5505.0: High Rollers / Low Rollers (within 20)

### Teacher Planning Notes:

**Task Group Number:** 5505

**Task Group Name:** Rollers

**Strand:** Base Ten Arithmetical Strategies

**Activity Level and Color:** 0 Yellow

### KNP Activity Link with access to Printables and Student Instructions:

</knp/activity.php?id=5505.0&prefix=T>

**Numeracy Target:** Emerging understanding that 2-digit numbers are composed of tens and ones  
[Numeracy Targets Chart](#)

**Fluency Benchmark:** KY.2.OA.2 Fluently add and subtract within 20.

**Kentucky Academic Standard(s):** [KY.K.CC.3](#), [KY.2.NBT.2](#)

**Student-Friendly Learning Target:** I am learning to High Rollers: I am learning to find total of two values within twenty counting by ones. Low Rollers: I am learning to find the difference of two values within twenty counting by ones.

**Suggested Student Grouping(s):** Partners

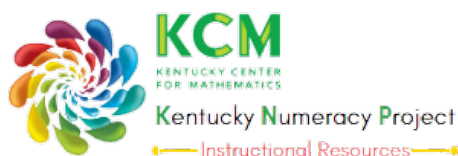
**Materials:** High Rollers: Number Cube labeled [+1, +1, +2, +2, +3, +3], Craft Sticks, Writing Instruments, High Rollers Scoreboard / Low Rollers: Number Cube Labeled [-1, -1, -2, -2, -3, -3], Craft Sticks, Writing Instruments, Low Rollers Scoreboard

**Activity Description:** High Rollers: Students will work with a partner. They should each have a pencil and start with no craft sticks. 40 craft sticks will be in a cup accessible to both students. Taking turns, students will roll the cube, get that number of sticks from the cup and record their total. Students will build onto their sticks each time they roll. They will take turns until each of them has had six rolls. When they have their final total, they should compare to see which one came closest to 20. Low Rollers: Students will work with a partner. They should each have a pencil and start with 20 craft sticks. Taking turns, students will roll the cube, return that number of sticks to the cup and record their new total. Students will take from their remaining sticks each time they roll. They will take turns until each of them has had six rolls. When they have their final total, they should compare to see which one came closest to zero.

**Teacher Notes:** This activity challenges students to work toward conceptually counting the number of items in a group within 20. Students will place no particular value to the ten in this level as quantities are seen only as individual units. This is the introductory level for this task group. This activity can be run as a small group activity. Just print more copies of the scoreboard for students to share in pairs. Alternate Materials: Using a container, such as a cup, to hold sticks will keep the students organized and prevent them from mixing their sticks with the center bank of sticks and bundles. You may substitute base 10 blocks for craft sticks. Students should become familiar with materials they can bundle or group together to see how ten ones make one ten. Created by Jordan Rhude & Emily Westerling, 2015

**Evidence of Learning (Diagnostic Assessment of Progress):** High Rollers: Give student nine craft sticks. Ask them how many they have. Give student seven more. Ask them how many they have now. Low Rollers: Give students 20 craft sticks. Ask them to give you eight and tell how many are left.

**KNP ID #T 5505.0**



[www.kymath.org](http://www.kymath.org)  
[kcm@nku.edu](mailto:kcm@nku.edu)