

# Lesson Plan for KNP Activity

## T 5505.1: High Rollers / Low Rollers (within 100)

<b>Teacher Planning Notes:</b>	
<b>Task Group Number:</b> 5505	<b>Task Group Name:</b> Rollers
<b>Strand:</b> Base Ten Arithmetical Strategies	<b>Activity Level and Color:</b> 1 Red
<b>KNP Activity Link with access to Printables and Student Instructions:</b> <a href="/knp/activity.php?id=5505.1&amp;prefix=T">/knp/activity.php?id=5505.1&amp;prefix=T</a>	
<b>Numeracy Target:</b> Solve 2-digit +/- with materials by counting by 10s OR by 1s <a href="#">Numeracy Targets Chart</a>	
<b>Fluency Benchmark:</b> KY.2.NBT.5 Fluently add and subtract within 100.	
<b>Kentucky Academic Standard(s):</b> <a href="#">KY.1.NBT.4</a> , <a href="#">KY.1.NBT.5</a> , <a href="#">KY.2.NBT.5</a>	
<b>Student-Friendly Learning Target:</b> I am learning to find the total or difference of two values within 100, using tens or ones with materials.	
<b>Suggested Student Grouping(s):</b> Partners	
<b>Materials:</b> High Rollers: Roll to Target (within 100): Number cube labeled (+1, +1, +1, +10, +10, +10), Craft sticks and bundles (10 sticks and 10 bundles), Numeral cards (25, 30, 35, 40, 45, 50), Writing instruments, High Rollers scoreboard Low Rollers: Roll to Zero (within 100): Number cube labeled (-1, -1, -1, -10, -10, -10), Decade numeral cards (50, 60, 70, 80, 90), Craft sticks and bundles (should have access to 18 bundles), Writing instruments, Low Rollers scoreboard	

**Activity Description:**

**High Rollers: Roll to Target (within 100):** Students will work with a partner. They should each have a pencil and start with no craft sticks. Ten sticks and ten bundles available for students. Shuffle decade numeral cards and place in a stack face down on the target number space on the scoreboard. Turn over top card to find out the Target Number the students will be building to. 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. Continue even if they pass the target number. When they have their final total, they should compare to see which one came closest to Target Number.

**Low Rollers: Roll to Zero (within 100):** Students will work with a partner on same scoreboard. Shuffle decade numeral cards and place face down on the starting number space on the scoreboard. Flip over the top card to find out the starting number. Students will start with that number of craft sticks in bundles. Taking turns, students will roll the cube, return that number of sticks to the center and record their new total. Students will take from their sticks each time they roll, without replacing sticks and bundles. 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

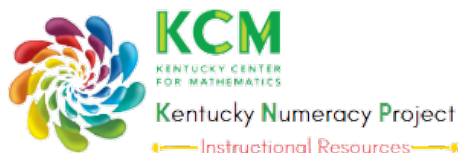
**Teacher Notes:**

This activity challenges students to work with tens as something constructed out of ten ones, but not yet deal with tens and ones at the same time. At the end of this task, they will be able to solve addition and subtraction tasks by counting forward and backward by ones. Students are ready for this activity when they can solve addition and subtraction tasks within 20 when counting on and back by ones. This activity can be run as a small group activity. Just print more copies of the scoreboard for students to share in pairs. Materials Notes: Using a container to hold sticks and bundles will keep the students organized and prevent them from mixing their sticks and bundles with the center bank of sticks and bundles. You may substitute base 10 blocks for craft sticks. Students should become familiar with materials they may later 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: Roll to Target (within 100):** Give students one bundle and four craft sticks. Ask them how many they have. Give students seven more. Ask them how many they have now. Then give them two bundles. Ask them how many they have now.

**Low Rollers: Roll to Zero (within 100):** Give student four bundles. Ask them to give you two bundles and tell how many they have now. Then ask them to give you three sticks and tell how many they have now.

**KNP ID #T 5505.1**

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