Lesson Plan for KNP Activity
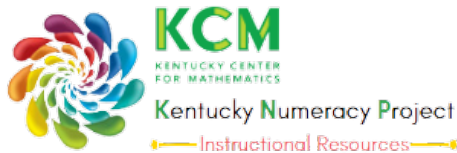# T 5505.2: Mixed Rollers (within 100 w/ support)

Teacher Planning Notes:

Task Group Number: 5505	**Task Group Name:** Rollers
Strand: Base Ten Arithmetical Strategies	**Activity Level and Color:** 2 Blue

KNP Activity Link with access to Printables and Student Instructions:
/knp/activity.php?id=5505.2&prefix=T

Numeracy Target: Solve 2-digit +/- with materials by using strategies based on place value
Numeracy Targets Chart

Fluency Benchmark: KY.2.NBT.5 Fluently add and subtract within 100.

Kentucky Academic Standard(s): KY.1.NBT.2, KY.2.NBT.5

Student-Friendly Learning Target: I am learning to find the total of two values with tens and ones within 100 with materials.

Suggested Student Grouping(s): Partners

Materials: Number cube labeled (10, 11, 12, 13, 14, 15), Craft sticks and bundles (20 sticks and 20 bundles), Decade numeral cards (2 each 10-90), Writing instruments, Mixed Rollers scoreboard

Activity Description: Students will work with a partner. Shuffle one set of decade numeral cards and place face down on the starting number space. Shuffle second set of decade numeral cards and place face down on the target number space. Flip over the top card of both stacks to find your starting and target numbers. Students will get the same amount of craft sticks as the starting number on the board. Have the craft sticks and bundles available to students to the side in a reserve (can be a pile, or a box).Taking turns, students will roll the number cube, and decide whether to add or subtract that number of sticks to get as close as they can to the target number. They may try adding and subtracting before they choose, make sure they have enough time to think about it. If they choose to add, they will select that amount from the reserve of sticks and bundles. If they choose to subtract, they will return that amount to the reserve from their total sticks.

Teacher Notes: This activity challenges students to work with two digit numbers dealing with tens and ones simultaneously with use of materials. At the end of this task, they will feel comfortable solving two digit addition and subtraction tasks using jump strategies. Students are ready for this activity when they understand that a ten is composed of ten ones and can solve addition and subtraction tasks dealing with tens or 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: Ã¯â€¬Â 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 Ã¯Â¿Â½reserveÃ¯Â¿Â½ of sticks and bundles. Ã¯â€¬Â You may substitute base 10 blocks for craft sticks. Students should become familiar with materials they can bundle, or group together, and break apart to clearly show how a ten is composed of ten units. Created by Jordan Rhude & Emily Westerling, 2015

Evidence of Learning (Diagnostic Assessment of Progress): Show student card with 50. Have child get that many bundled sticks. Then show student the number 14. Ask them to subtract that number and tell how many they have now. Next, show student the number 13. Ask them to add that number and tell how many there are now.

KNP ID #T 5505.2