Lesson Plan for KNP Activity
T 5505.4: Mixed Rollers: Double Trouble

Teacher Planning Notes:

Task Group Number: 5505

Task Group Name: Rollers

Strand: Base Ten Arithmetical Strategies

Activity Level and Color: 4 Purple

KNP Activity Link with access to Printables and Student Instructions:
/knp/activity.php?id=5505.4&prefix=T

Numeracy Target: Solve 2-digit +/- without materials using a range of strategies
Numeracy Targets Chart

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

Kentucky Academic Standard(s): [KY.2.NBT.5](KY.2.NBT.5)

Student-Friendly Learning Target: I am learning to find the total or difference of three values with tens and ones and choose appropriate operation to get to target number.
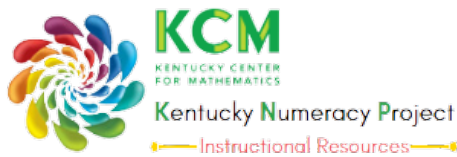
Suggested Student Grouping(s): Partners

Materials: Two number cube labeled (10, 11, 12, 13, 14, 15), Numeral Cards (20-75 by fives), Writing instruments, Mixed Rollers scoreboard

Activity Description: Students will work with a partner. Shuffle numeral cards and place face down on the starting number space. Target number is 100. Flip over the top card of the stack to find your starting number. Taking turns, students will roll the number cubes, and decide whether to add or subtract the numbers to get as close as they can to the target number. Students can add both, subtract both or add one and subtract the other. They may try finding totals before they choose so make sure they have enough time to think about it. They will not be able to subtract if their current total is less than the number rolled. They will add or subtract to find their new total and record it on their scoreboard. Each student will take six turns. At the end of six turns, the students will compare total to see who got closest to the target number.

Teacher Notes: This activity challenges students to work with tens and ones within 100 as conceptual structures in order to solve two digit addition and subtraction problems using a range of mental strategies. This also challenges students to plan a course of action before solving multiple step addition and subtractions problems in order to get a desired result. Students are ready for this activity when they can mentally solve two digit addition and subtraction problems involving both tens and ones. This activity can be run as a small group activity. Just print more copies of the scoreboard for students to share in pairs. Created by Jordan Rhude & Emily Westerling, 2015

Evidence of Learning (Diagnostic Assessment of Progress): Show student numeral card labeled 75. Show them two numbers 12 and 15. Tell them they must get as close to the number 80 as they can both adding and/or subtracting 12 and 15. (They should add 15 and subtract 12 to get 78).

KNP ID #T 5505.4