

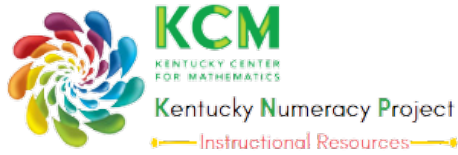
Lesson Plan for KNP Activity

A 3304.5: Fill 30 Game (find the difference)

Teacher Planning Notes:	
Task Group Number: 3304	Task Group Name: Fill 20/30 Game
Strand: Addition and Subtraction	Activity Level and Color: 5 Pink
KNP Activity Link with access to Printables and Student Instructions: /knp/activity.php?id=3304.5&prefix=A	
Numeracy Target: Add and subtract using a range of composite strategies Numeracy Targets Chart	
Fluency Benchmark: KY.2.NBT.5 Fluently add and subtract within 100.	
Kentucky Academic Standard(s): KY.1.OA.3 , KY.1.OA.4 , KY.2.OA.2	
Student-Friendly Learning Target: I am learning to subtract within 30 using mental computation strategies.	
Suggested Student Grouping(s):	
Materials: "Fill 30" game board, 30 counters per player, 1 cube labeled "10, 11, 12, 13, 14, 15" and another labeled "15, 16, 17, 18, 19, 20"	
Activity Description: Give each student one "Fill 30" game board. On his/her turn, a student will roll both cubes and find the difference. This is the number of counters the student will add to the game board. Ex., if 11 and 19 are rolled, the student will determine the difference (i.e. $19-11 = 8$) and add 8 counters to the game board. Game ends when game board(s) are filled. Students could record the subtraction sentence for each turn.	
Teacher Notes: Students should be asked to explain their reasoning. The hope is that students will use mental strategies other than counting to solve the problems. For example, if a student rolls 18-11, he could reason that $18-10$ is 8 so $18-11$ is 7. Or he might reason that $8-1$ is 7 so the $18-11$ is also 7. If a student is struggling to see these strategies, the student may find it helpful to work the problem on a 20 bead rack.	

Evidence of Learning (Diagnostic Assessment of Progress): Pose the following tasks one at a time by writing the task on a card or white board. Observe if the student is using an efficient strategy: 19-11, 15-13, 20-12.

KNP ID #A 3304.5



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