Subtraction Stacks

Game 21, Pg. 59 (Derived Fact Strategies - Addition and Subtraction)
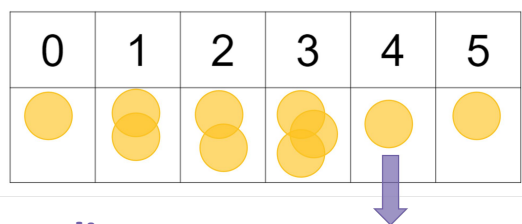
Game Goal: Remove all counters from your subtraction stack first.

Materials: Subtraction Stacks gameboard per player, two dice, 10 counters per player.

How to Play (2 or more players):

1. Each player places their 10 counters on their Subtraction Stacks gameboard on numbers of their choice. Not every number has to have counters and multiple counters may be stacked on top of each other.

2. Player 1 rolls both dice and finds the difference between the two numbers. Player 1 explains their thinking strategy used to find the answer.

3. All members of the group determine if the answer is correct.

4. Player 1 removes a counter from the stack on their gameboard corresponding to the difference.

5. If the player has no counters on that stack, nothing is removed and the next player takes their turn.

6. Repeat steps 1-5 for each player. The first player to remove all counters from their gameboard wins.

Game in Action:

The difference between 7 and 3 is 4. I know because 3 + 4 = 7. I am going to remove a counter from 4!

Recording: Provide one recording sheet per player. On each round, they record an equation that corresponds with their rolled numbers and difference.

Variations:

- Use 10-sided dice with the extended 0-9 gameboard.
- Use more counters.
- Change to sums and use one of Addition Stacks gameboards (available online).

UNIVERSITY OF LOUISVILLE. ascd NCTM KCM KENTUCKY CENTER FOR MATHEMATICS