

# PLACE VALUE BANK

*Each placeholder has a threshold - and once you cross that threshold, you need to exchange, or swap, or 'bank'.*



## Students will:

1. Allocate counters to their correct Place Value.
2. Sort place value in correct order.
3. Construct numbers and vocalise them.
4. Learn trading to higher Place Values.
5. Apply numbers and Place Value to the real world.

## Materials:

- Place Value Twister
- Place Value counters (included)
- A container or bag to act as the 'Bank'

## Preparation

Ensure that you cater for the level of your students - you may need to limit what cups they use based on their level of understanding. Ensure that you have over 9 counters for each colour in the bank to give the students the opportunity to trade with the bank. Students or the teacher can role play as the banker and should apply 'dollars' to the amount they have to reinforce the real world application of numbers.

## Lesson Procedure

1. Set students up with the appropriate amount of cups. Some will have two, some will have three, and some will have all four. Have them organise them, as always, in descending order from left to right.
2. Have them choose a handful or be given a set of counters from the bank.
3. Students set up the counters in front of the cups, and count out the value they have.
4. When the students have more than 9 of one colour they must count out 10 counters and trade them with the bank for the higher order colour.
5. Students then make the number, recording if need be for further lesson variations such as arranging the numbers in descending or ascending order or partitioning.

## Differentiation

- Vary the amount of cups a student uses.
- Deliberately provide the bank with a shortage of say yellow (tens) counters to force the students to still make the number by retaining the traded value in their head.
- Encourage the students to take turns as the banker who can act as a verifier of a small group's numbers and transactions. The teacher can even act the 'reserve bank' and flood or remove currency (counters) from each of the banks to force place value trading or for students to retain traded values in their head.