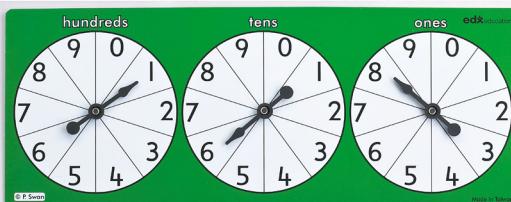


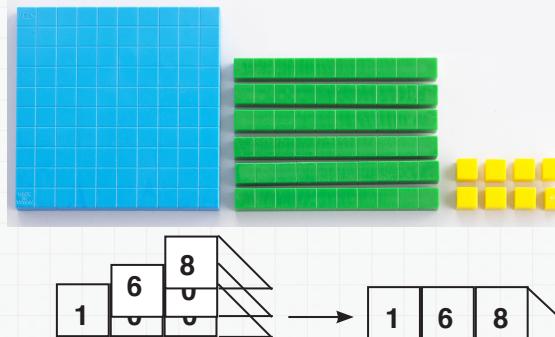
Place Value Spinner (HTO)

The Hundreds Tens Ones Spinner has been designed to mirror the way numbers are said. For example, the spinner above shows 168, that is 1 Hundred 6 Tens (6t or sixty) 8 Ones.

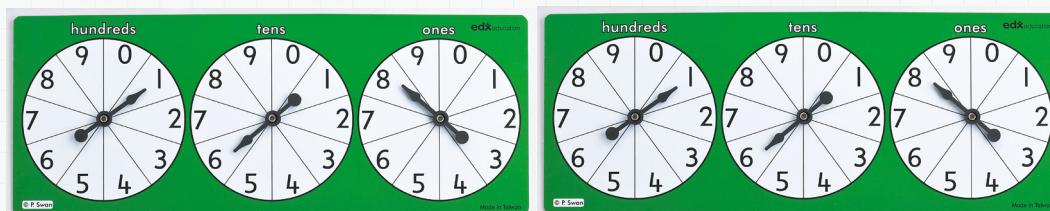
Each time the spinner arrows are flicked, a new number is generated. Here are some ideas for using the Place Value H T O Spinner.



1. Students spin a number, write it down and order themselves in ascending or descending order.
2. Students spin a number and then state the number that is ten more or ten less, one hundred more or less than their number.
3. Two students compare the numbers that they have generated. Ask which number is greater and by how much.
4. Show the generated number:
 - with materials
 - base ten blocks
 - with arrow cards
 - montessori cards
 - place value cards
 - on a Gattegno chart
5. Round numbers
6. Explain what digit is in a particular place
 - What digit is in the tens place (6)
7. Rename the number.
 - How many tens are in 168? (16)
 - 168 is $100 + 60 + 8$; It is also 16 tens and 8, and 168 ones



8. Explore the pattern for naming numbers by joining two or more PV spinners together
HTO, HTO,



This fact sheet may be copied
and shared for educational use.



Gattegno Grid

Named after Caleb Gattegno (1911 - 1988) who developed, among many other achievements, some innovative approaches to the teaching and learning of mathematics. There are several ways this grid might be employed.

One way would involve placing transparent counter onto the grid to show the number that was spun on the HTO spinner.

1000	2000	3000	4000	5000	6000	7000	8000	9000
100	200	300	400	500	600	700	800	900
10	20	30	40	50	60	70	80	90
1	2	3	4	5	6	7	8	9

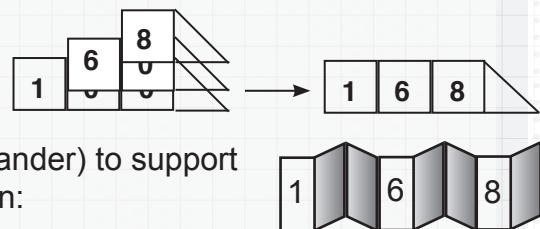
Questions such as 'What number is:

- one more/less
- ten more/ten less
- one hundred more/less
- ten times as much

may be posed.

Further Support

Templates for Arrow Cards may be downloaded from [www.drpaulswan.com.au \[resources\]](http://www.drpaulswan.com.au/resources)



Explanations on how to use materials (eg the number expander) to support the establishing of a system of place value may be found in:

