

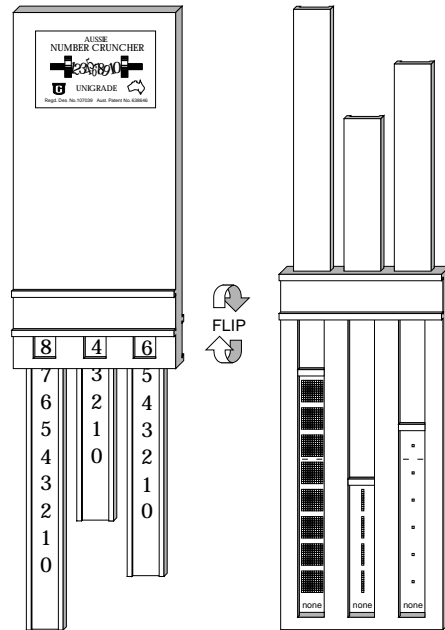
Place Value - Reading Numbers

The concrete aspect of the M.A.B. side of the Number Cruncher helps lower the probability of your students learning to read abstract numbers by rote.

Ideally, your students should have had much practice in reading and representing numbers in concrete and abstract terms.

It is easy for students to learn to read the digital form by rote but not understand what the digits represent. These students may not be able to read large numbers represented in concrete material such as M.A.B.

Students could show the number to be read on the digit side, then flip to the M.A.B. side to read the number thus linking concrete and abstract.



'Eight hundred and forty-six.'

Activity

Five Number Crunchers displaying different numbers on the M.A.B. side are arranged along the chalkboard. A student is selected to read the numbers in order. If they are successful they alter the Number Crunchers to show five new numbers. They then select another student to read the numbers. If a student reads a number incorrectly they stop and choose another student to read the numbers.

Game

Students are divided into two teams. A student from one team is selected to display a number on the M.A.B. side of a Number Cruncher and give it to a student from the other team. If the student reads the number correctly the team scores a point and that student sets a new number to give to another member of the opposing team. If the student is incorrect the other team gets the point and the student who set the number gives it to another student from the opposing team. The first team to score ten points wins the round.

Place Value - Writing Numbers

Whether writing numbers in digits or words the Number Cruncher provides your students with a valuable visual aid.

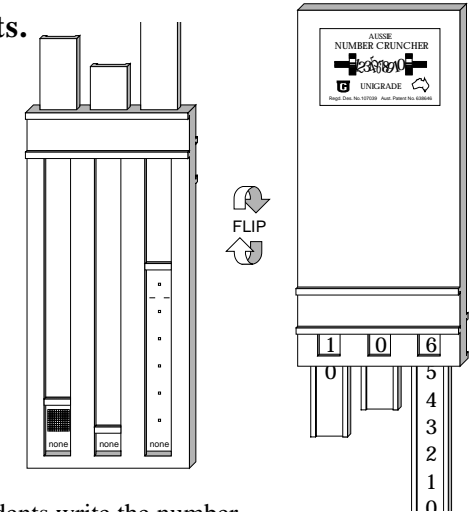
Writing numbers in digits.

Activity

Say the number your students are to write. They write the number using digits, make it on the M.A.B. side of their Number Crunchers, then flip to check.

Alternatively students form the number directly using the digit side of their Number Crunchers.

Eventually students need to be able to write number in words without the aid of concrete representation.



Students write the number ... make it on the M.A.B side then... flip to check.

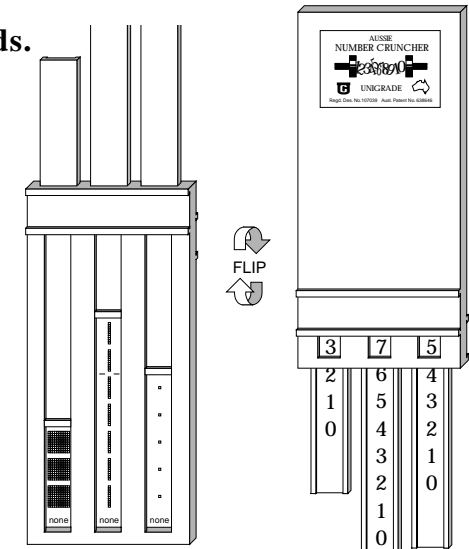
Writing numbers in words.

Activity

Say the number your students are to write in words. They make the number on the M.A.B. side of their Number Crunchers.

Students are then allowed to use either side of their Number Crunchers as an aid to writing the number in words.

Eventually students need to be able to write number in words without the aid of concrete representation.



Students make the number ... and use either side ... to write the number in words.