# Number and Algebra: Number and Place Value: Robot Rounding 

$\left.$| $\|$Australian Curriculum <br> This lesson plan could be used to support the teaching and learning of the following Content Descriptions from the Australian Curriculum. <br> Y5 - Number and Algebra |
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| Use estimation and rounding to check the reasonableness of answers to calculations (ACMNA099) |
| Child-Friendly Aim: <br> I can round numbers to a required <br> degree of accuracy. |
| Success Criteria: <br> I can identify which digit to consider when rounding <br> to different degrees of accuracy. <br> I can identify which digits to round up and which <br> digits to round down. | | Resources: |
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| Lesson Pack |
| Paper clip - per pair |
| Dice - per pair | \right\rvert\, | Key/New Words: |
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| Round, digit, place value, ten, hundred, thousand, |
| ten thousand, hundred thousand, million, accuracy. | | Preparation: |
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| Dice Dilemma Activity Sheet - per pair |
| Differentiated Robot Rounding Activity Sheet |

Prior Learning: It will be helpful if children have covered place value of numbers up to 10000000 .

## Learning Sequence

Dice Dilemma: Children work in pairs to complete the number comparisons on the Dice Dilemma Activity Sheet.
Children roll a dice to generate the digits to fill in the spaces, making sure they position the digits correctly to make
the number comparisons correct.

## Masterit

Roundit: Use this Activity Sheet to round numbers to a required degree of accuracy, and to suggest possible numbers that could have been rounded.
Findit: Children roll a five-, six- or seven-digit number. Children round the number they make to the nearest ten thousand, hundred thousand or million. Can they then roll another number that rounds to the same ten thousand, hundred thousand or million?

