

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

## Australian Curriculum

This lesson plan could be used to support the teaching and learning of the following Content Descriptions from the Australian Curriculum.

### Y5 – Number and Algebra, Number and Place Value

Use estimation and rounding to check the reasonableness of answers to calculations (ACMNA099)

<p><b>Child-Friendly Aim:</b></p> <p>I can round decimal numbers to different values.</p>	<p><b>Resources:</b></p> <p><b>Lesson Pack</b></p> <p>Pegs - 30 per group</p> <p>Masking tape</p> <p>Metre stick - 1 per group</p> <p>Beanbag - 1 per group</p> <p>Counters - 2 per group</p> <p>Ruler - 1 per group</p> <p>Access to space to carry out the standing long jump and the beanbag shot put</p>	<p><b>Preparation:</b></p> <p><b>Peg Rounding Cards</b> - 1 per group, cut out in advance</p> <p><b>Activity Guides</b> - 1 per group</p> <p>Differentiated <b>Score Card Activity Sheet</b> - 1 per child</p> <p><b>Rounding Number Line</b> - as required</p> <p>Line drawn for children to stand on for the standing long jump and beanbag shot put</p>
<p><b>Success Criteria:</b></p> <p>I can identify the values above and below a number.</p> <p>I can identify which digit to focus on when rounding to different values.</p> <p>I can identify which digits to round up and which digits to round down.</p>		
<p><b>Key/New Words:</b></p> <p>Round, digit, place value, decimals, whole numbers, ones, tenths, hundredths.</p>		

**Prior Learning:** It will be helpful if children have covered place value of numbers up to 1 000 000, and rounding to different values.

## Learning Sequence

	<p><b>Peg Rounding:</b> Give each group a set of <b>Peg Rounding Cards</b> and 30 pegs. Children identify the correct answer for each card by clipping a peg onto the right box on the card. Share the answers with the class.</p>	
	<p><b>Rounding Decimals:</b> Introduce rounding decimals, referring to the <b>Lesson Presentation</b>.</p>	
	<p><b>Find the Nearest:</b> Model rounding decimal numbers to the nearest whole number or the nearest tenth using the <b>Lesson Presentation</b>. Click through the slides to demonstrate and recap the rounding method. Children choose two of the rounding challenges shown on the Lesson Presentation and solve them. Share the answers and discuss any issues. <i>Can children identify the numbers either side of the number to be rounded? Can children identify whether to round up or round down?</i></p>	
	<p><b>Championship Scores:</b> Share the context of the activity - collecting scores from a series of games, and rounding the scores. Go through the example of tiddlywinks as shown on the <b>Lesson Presentation</b>. Children round one of the example scores to the nearest whole number. Share the answers and address any misconceptions. <i>Can children round decimal numbers to the nearest whole number?</i></p>	
	<p><b>Rounding Championships:</b> Children work in groups and use the <b>Activity Guides</b> to participate in three events: standing long jump, tiddlywinks and beanbag shot put. Children record their group's scores on the differentiated <b>Score Card Activity Sheet</b>, then round the scores to the nearest whole number or tenth. <i>Can children round decimal numbers to the different values?</i></p> <div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="text-align: center;"> <p>Round the scores to the nearest whole number. Use the <b>Rounding Number Line</b> if required.</p> </div> <div style="text-align: center;"> <p>Round the scores to the nearest whole number and the nearest tenth.</p> </div> <div style="text-align: center;"> <p>Round the scores to the nearest whole number and the nearest tenth, and consider the reasoning question about the difference between the raw scores and the rounded scores.</p> </div> </div>	
	<p><b>Rounding Reasoning:</b> Children discuss the reasoning question shown on the <b>Lesson Presentation</b> about the difference between the raw scores and the rounded scores. Higher ability children can share their thoughts from the group activity.</p>	

## Masterit

**Roundit:** Use this **Rounding Decimals Maths Mastery Powerpoint** to solve problems involving rounding decimals.