

# Addition, Subtraction, Multiplication and Division: Tabletop Olympics

<b>Aim:</b> Use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy.  I can use estimation to check the answers to a calculation.	<b>Success Criteria:</b> I know what 'estimation' means.  I can use rounding to help me estimate.	<b>Resources:</b> Lesson Pack Marbles or scrunched paper balls Beanbags Timers Measuring equipment, e.g. metre rulers, measuring tapes, trundle wheels.
	<b>Key/New Words:</b> Guess how many, estimate, roughly, close to, about the same as, just over, just under, exact, exactly, round, nearest, round to the nearest ten, round to the nearest hundred, approximate, approximately.	<b>Preparation:</b> School Olympic Activity Sheet - 1 per child Finger Tennis Game Board - 1 per child Finger Tennis Scorecard - 1 per child Running Track Hurdles Activity Sheets - 1 per pair Extra Challenge Activity Sheet - as required

**Prior Learning:** It will be helpful if children have a secure understanding of place value, multiplication facts and corresponding number facts.

## Learning Sequence

	<b>Excellent at Estimation:</b> Using the <a href="#">Lesson Presentation</a> , the children estimate the quantities or percentages of selected sections of the graphs.				
	<b>Training for the Olympics:</b> Using the <a href="#">Lesson Presentation</a> , demonstrate to the children how to use estimation to check answers to questions. Explain that estimation is an educated guess using knowledge you already have to make a rough calculation of the value of something.				
	<b>Preliminaries:</b> Using the <a href="#">Lesson Presentation</a> , the children estimate and select the most appropriate answer. Invite children to explain their method of estimation. <i>Did the children use rounding?</i>				
 	<b>Tabletop Olympics:</b> Explain to the children that they will be completing a range of questions that will require them to <i>check their answers to questions using estimation</i> as demonstrated earlier in the lesson. <table border="0" style="width: 100%;"> <tr> <td style="width: 33%; text-align: center;"> <p>In small groups, the children complete a range of activities with the provided sports equipment before <i>completing whole number calculations and using estimation to check their answers</i> on the differentiated <a href="#">School Olympic Activity Sheet</a>.</p> </td> <td style="width: 33%; text-align: center;"> <p>In pairs, children take turns to flick their scrunched paper ball or marble on the <a href="#">Finger Tennis Game Board</a>. The children copy the calculation that they land on to their <a href="#">Finger Tennis Scorecard</a>. They then <i>complete the calculations involving simple decimals and use estimation to check their answers</i>. The answer to each question will be their score. The child with the highest score at the end of the lesson wins.</p> </td> <td style="width: 33%; text-align: center;"> <p>In pairs, the children compete to <i>complete a series of calculations involving decimals and check their answers using estimation</i> on the <a href="#">Running Track Hurdles Activity Sheets</a>. The first child to the finish line with the most accurate answers win. An <a href="#">Extra Challenge Activity Sheet</a> is provided as an extension activity if required.</p> </td> </tr> </table>	<p>In small groups, the children complete a range of activities with the provided sports equipment before <i>completing whole number calculations and using estimation to check their answers</i> on the differentiated <a href="#">School Olympic Activity Sheet</a>.</p>	<p>In pairs, children take turns to flick their scrunched paper ball or marble on the <a href="#">Finger Tennis Game Board</a>. The children copy the calculation that they land on to their <a href="#">Finger Tennis Scorecard</a>. They then <i>complete the calculations involving simple decimals and use estimation to check their answers</i>. The answer to each question will be their score. The child with the highest score at the end of the lesson wins.</p>	<p>In pairs, the children compete to <i>complete a series of calculations involving decimals and check their answers using estimation</i> on the <a href="#">Running Track Hurdles Activity Sheets</a>. The first child to the finish line with the most accurate answers win. An <a href="#">Extra Challenge Activity Sheet</a> is provided as an extension activity if required.</p>	
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	<b>Awarding Ceremony:</b> Invite children to select a calculation that they have completed this lesson and explain to a partner how they used estimation to check the answer. Their partner then awards them a 'gold', 'silver' or 'bronze' medal for their explanation. Repeat with a different calculation. <i>Can the children use the correct terminology? Can children explain how they used estimation to check the answers to questions?</i>				

## Masterit

**Quizit:** Invite children to complete the challenging questions on this amazing [Year 6 Calculation Estimation Maths Mastery Activities PowerPoint](#).

**Timeit:** Ask children to complete this timed [Using Rounding to Check Answers](#) activity. Can they beat the clock?