














Addition, Subtraction, Multiplication and Division: The Dog Chewed My Home Learning

Aim: Use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy. I can use rounding to check answers to problems.	Success Criteria: I can round up or down depending on the digit. I can round to an appropriate degree of accuracy. I can use rounding to help me decide if an answer is correct or incorrect.	Resources: Lesson Pack 0-9 Dice. If these are not available, please use the template provided.
	Key/New Words: Estimate, roughly, close to, exact, exactly, round, nearest, approximate, approximately, context, rounding up, rounding down.	Preparation: 0-9 Dice - as required Home Learning Questions - 1 per child Home Learning Record Sheet - 1 per child Home Learning Activity Sheet - 1 per child 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

	On a Roll: Split the class into groups of four. One child rolls three 0-9 Dice at the same time to create a three-digit number. Repeat, creating another three-digit number. The children work together to add the numbers together, sharing any tips on how to quickly find the total, e.g. using pairs to 10 or 100, doubles.	
	Helpful Hint: Ask children in their own words what it means to round numbers. Discuss with children why we round numbers. Explain that rounding can be used to estimate and check answers. Demonstrate using rounding to check the answers to the problems on the Lesson Presentation . Model selecting whether you are going to round to 10, 100 or 1000 and give reasons why.	
	The Goldfish Stole My Home Learning: Show the problems on the Lesson Presentation . On each slide, there are two possible rounded answers (on the left and right side of the slide). Children stand next to the side of the board that they think shows the correct answer. Can children explain their reasons for choosing that answer?	
	The Dog Chewed My Home Learning: Children complete differentiated Home Learning Activities using rounding to check answers and solve problems. <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;">  <p>Place chairs in a circle and place one of the Home Learning Questions on each chair. Children choose a seat, starting on that question first. They have a certain amount of time to finish before moving on to the next seat. Children use rounding to prove the answer is correct or incorrect, recording their answers on the differentiated Home Learning Record Sheet. Give extra time for children to go back and complete questions at the end.</p> </div> <div style="width: 45%;">   <p>In mixed-ability pairs, children complete the Home Learning Activity Sheet, solving word problems and checking answers by rounding. An Extra Challenge Activity Sheet is provided as an extension activity if required.</p> </div> </div>	
	Home Learning Feedback: Go through the answers to the questions. Ask children to explain their methods . Ask the class why it's useful to use estimation and rounding. Discuss their answers.	

Masterit

Useit: Encourage children to use rounding to check their answers in tomorrow's maths lesson.

Watchit: Watch the video [Rounding and Approximation](#). Discuss ideas about why it might be necessary to estimate because a calculation would be too difficult or inconvenient.