Estimation and rounding

Terms	Illustrations	Definitions
Actual		The correct answer.
Approximate/ Approximating		To give a 'rough answer' that may be slightly more or less than the actual answer.
Degree of accuracy		The level of accuracy to round a number to e.g. • to the nearest 10, 100, 1000. • to 1 decimal place • to 3 significant figures
Estimation		Comparing different sizes and amounts (quantities) using appropriate vocabulary to describe them in relation to each other *e.g. longer/shorter, lightest/heaviest* A 'reasonable' guess. Predicting solutions and checking the accuracy of calculations *e.g. estimating 317 + 498 as approximately 300 + 500 = 800 and comparing estimate to actual solution.*
Rounding		Rounding can make numbers easier to work with e.g. • round a number to the nearest 10 (or multiple of 10) • *when adding 42 and 98, round down 42 to 40 and round up 98 to 100 to get an approximate answer.* • *In context of decimal places, e.g. 5.634 = 5.6 (round up to 1 decimal place) or 5.63 (to 2 decimal places).* • *In context of significant figures, e.g. 0.00421 = 0.0042 (to 2 significant figures).*