STAGE 9: UNIT 1 CALCULATING

KEYWORDS AND DEFINITIONS



	value to make it easier to calculate with e.g. 3.14159265 rounded to 4 decima places becomes 3.1416
9	Lower Bound (minimum) The lowest number a rounded value could have been.
10	Upper Bound (maximum) The highest number a rounded value could have been.
11	Interval A set of numbers that lie between 2 values e.g. 2 is the lowest integer and is included up to but not including 5 $2 \le x < 5$
12	Decimal Place The position of a digit after the decimal point
13	Significant Figure A digit that has a meaningful place value. 1st significant figure 3rd significant figure 0.0345 2nd significant figure

NOTATION



PRIOR KNOWLEDGE

16	Know the meaning of indices (powers)
17	Know the meaning of roots
18	Know the x and ÷ laws of indices
19	Understand and use standard form to write numbers
20	Round to a given number of decimal places or significant figures
21	Know the meaning of the inequality symbols

CORE SUCCESS CRITERIA

22	Calculate with positive indices
23	Use a calculator to evaluate numerical expressions involving indices.
24	Interpret a number written in standard form
25	Apply all 4 operations with standard form
26	Convert a near miss into standard form e.g. 23 x 10 ⁷
27	Use a calculator effectively to input standard form and interpret displays
28	Understand the difference between truncating and rounding
29	Identify the lower and upper bounds of an amount that has been rounded
30	Apply inequalities to describe the range of values for a rounded value.
31	Solve problems involving upper and lower bounds