

WHAT DO WE ALREADY *know?*

- Know the meaning of powers and roots.
- Use the multiplication and division laws for indices.
- Convert between standard form and normal numbers.
- Round to decimal places and significant figures.

Stage 9 Calculating



- Confidently use indices, including negative and fractional.
- Calculate with numbers written in standard form.
- Understand upper and lower bounds and be able to take a range of error into account when calculating.

KEYWORDS

- Power
- Root
- Index, Indices
- Standard form
- Inequality
- Truncate-late 15c., from Latin truncatus "cut off,"
- Round
- Minimum, Maximum
- Interval-early 14c., "time elapsed between two actions or events," from Old French intervalle
- Decimal place
- Significant figure

Calculating - Targets	Before Topic	After Topic	Teacher Mark
Be able to simplify expressions and calculate answers using negative indices.			
Be able to simplify expressions and calculate answers using fractional indices.			
Calculate with negative indices in the context of standard form.			
Add and subtract in standard form.			
Multiply and divide in standard form.			
Understand the difference between truncating and rounding.			
Identify the minimum and maximum values of an amount that has been rounded.			
Use inequalities to describe the range of values for a rounded value			
Be able to calculate using upper and lower bounds.			
Calculate the maximum percentage error of a calculation.			