

Stage 10 Calculating



- How to calculate with positive and negative indices.
- Use the multiplication and division laws for indices.
- Round to decimal places and significant figures.
- Identify upper and lower bounds.

- Confidently use indices which may be negative and/or fractional.
- Estimate roots and use surds accurately.
- Use upper and lower bounds appropriately when problem solving.



- Power, root
- Index, Indices
- Standard form
- Inequality
- Truncate say *trunk ate*
- Round-mid-14c., "entire, full, complete, brought to completion,"
- Minimum, Maximum
 - Interval
- Decimal place
- Significant figure
- Surd-1550s, "irrational" (of numbers), from Latin surdus
- Limit

Calculating - Targets	Before Topic	After Topic	Teacher Mark
Estimate squares and cubes of numbers up to 100			
Estimate square roots of numbers up to 150 and cube roots of numbers up to 20			
Understand what a surd is and why it is used.			
Calculate exactly with surds (including surd rules)			
Be able to calculate the upper and lower bounds in a given situation.			
Choose the appropriate upper and/or lower limits of a number when problems solving with bounds.			