

# MATHEMATICS Y9 - TERM 1.1

## I DEVELOP FLUENCY

- I can apply the laws of indices, including using negative powers
- I can write numbers in standard form and convert them back to ordinary form
- I can calculate percentage change accurately and consistently
- I can calculate simple and compound interest using efficient methods

## I REASON MATHEMATICALLY

- I can explain how the rules of indices work and apply them in the correct order
- I can justify when a number should be written in standard form based on context
- I can describe the difference between percentage change and reverse percentages
- I can explain the effect of repeated percentage changes in interest and depreciation



## I SOLVE PROBLEMS

- I can solve multi-step problems involving indices in algebra and arithmetic contexts
- I can apply standard form in calculations involving very large or very small values
- I can find original values from percentage increase or decrease using reverse methods
- I can solve interest and depreciation problems over multiple time periods

## I INTERPRET MATHEMATICALLY

- I can identify when to use indices or standard form by interpreting context clues
- I can extract values from worded problems to apply percentage or reverse percentage methods
- I can interpret interest or depreciation rate questions and decide what's being asked
- I can explain what calculated results mean in real-life financial and mathematical situations

**I READ:** • [Using an index or power - Laws of indices - Edexcel - GCSE Maths Revision - Edexcel - BBC Bitesize](#)

• [What is standard index form in maths? - BBC Bitesize](#)

• [Reverse percentages - Percentages - Edexcel - GCSE Maths Revision - Edexcel - BBC Bitesize](#)

• [Cumulative increase and decrease - Compound interest - National 5 Application of Maths Revision - BBC Bitesize](#)

## I LEARN

• Indices

• Standard Form

• Percentage Change and Reverse Percentages

• Interest & Depreciation