

MATHEMATICS Y8 - TERM 1.1

I DEVELOP FLUENCY

- I can use factor trees to break down numbers into prime factors
- I can find the highest common factor (HCF) and lowest common multiple (LCM) accurately
- I can multiply and divide numbers using powers of 10, 0.1 and 0.01
- I can round numbers to a required number of decimal or significant figures

I REASON MATHEMATICALLY

- I can explain how to find LCM and HCF using different methods
- I can describe how place value shifts when multiplying or dividing by powers of 10
- I can justify my rounding decisions and explain their impact on accuracy
- I can compare multiple methods and explain which is more efficient or appropriate



I SOLVE PROBLEMS

- I can apply prime factorisation to solve real-life or contextual problems
- I can use LCM and HCF to solve worded and reverse problems
- I can estimate and round values appropriately when solving complex calculations
- I can apply powers of 10 to solve problems involving scale, money or measurement

I INTERPRET MATHEMATICALLY

- I can use factor trees and Venn diagrams to show relationships between numbers
- I can read and interpret place value changes in decimal-based calculations
- I can assess how rounding impacts final answers or decisions
- I can extract useful information from multi-step worded problems

- I READ:**
- [Highest common factor and lowest common multiple - Multiples and factors - Edexcel - GCSE Maths Revision - Edexcel - BBC Bitesize](#)
 - [Powers of 10 - Math Steps, Examples & Questions](#)
 - [Rounding and estimating - KS3 Maths - BBC Bitesize](#)

I LEARN

- Prime Numbers and Prime Factorisation
- HCF and LCM
- Multiplying and dividing by powers of 10
- Estimation and rounding