

## Topic list for end of year maths exam – Year 8H

- $\times$  and  $\div$  whole numbers,  $+$  and  $-$  decimals
- Rounding and estimating
- Factors, multiples, prime numbers, HCF, LCM and product of prime factors
- Indices
- Mean, median, mode and range
- Estimating the mean from grouped data
- Simplifying expressions
- Expanding and factorising brackets
- Inequalities
- Transformations – not enlargement
- Calculating missing angles
- Conversion between fractions, decimals and percentages
- Sharing in a ratio
- Calculate a % of a quantity and % increase/decrease
- Writing and solving equations
- Area
- Pythagoras
- Circles
- Using your calculator effectively

There will be 2 exams. For the first exam you will not be allowed to use a calculator.

For the second exam you will be expected to have your own calculator. No other equipment will be needed.

The calculator section of the exam will contain a variety of question types including multiple choice questions and problem-solving questions where it will be important to show your working.

If you have any questions please speak to your maths teacher.

Remember you can find tutorials, practice questions and quizzes on our website [www.astarlearning.co.uk](http://www.astarlearning.co.uk)