

New GCSE Modular Higher Topic Checklist

Unit 2 Number Shape and Space

Exam in 2007

Worth 30% of your GCSE Marks

Add subtract times and divide integers without a calculator

Number

Factors and Multiples

Writing an integer as a product of its prime factors

Calculate HCF LCM

Sign rules

Estimating

Add subtract times and divide fractions

Fractions

Equivalent fractions

Simplifying fractions

Ordering fractions using common denominators

Calculating a fraction of an amount

Perform short division to convert a fraction into a decimal

Decimals

Terminating decimals

Recurring decimals

Converting recurring decimals to fractions

Irrational numbers

Add subtract times and divide decimals

Rounding to decimal places and significant figures

Percentage of an amount

Percentage

Simple interest

Laws of Indices

Indices

Roots , powers and indices

Fractional indices

Negative indices

Standard index form

Revise BODMAS

Algebra

Substitution

Collecting like terms

Expanding out brackets

Factorising algebraic expressions

Factorising quadratics

Simplifying algebraic fractions

Add two algebraic fractions

3D Coordinates

$y = mx+c$

Plot linear graphs

Find coordinates and mid- point of a line segment

Use and recognise common number sequences

Term to term rule

Position to term rule – nth term

Number Sequences

Angles

Opposite angles

Corresponding

Alternate

Triangles and quadrilaterals

Shape and space

Basic angle proofs

Area and perimeter of triangles and quadrilateral

Surface area and volume of solids

Circle vocabulary

Tangent properties to solve problems

Construct regular polygons inside circles

Circles

Knowledge of metric units

Make approximate conversion from metric to imperial

Compound measure speed and density

Bearings

Working with units

Power button

Roots button

Brackets

Fraction Key

Using a calculator efficiently