



Revision List

Year 9 Mathematics Examination

Paper 1: 45 minutes (*without* a calculator)

Paper 2: 45 minutes (*with* a calculator).

Equipment: You will need a *biro, pencil, calculator, protractor, compass and ruler.*



1. Parts of a Number

Part-whole and comparison bar models
 Sharing a number in a given ratio
 Bar model worded problems
 Equivalent ratios
 Simplifying ratios
 Comparing ratios
 The unitary method
 Calculating a fraction of a number

Comparing the size of fractions
 Improper fractions and mixed numbers
 Calculating with fractions
 Equivalent fractions
 Simplifying fractions
 Calculating the reciprocal
 Fractions on a calculator

2. Measuring Shapes 2

Circle terminology
 Calculating the circumference of a circle
 Calculating the area of a circle
 Finding the radius from the area
 Pythagoras' theorem (2-D)
 Proving whether a triangle is right-angled

Drawing solids on isometric paper
 Drawing elevations of solids
 Drawing a solid given a set of elevations
 Creating a scale drawing
 Interpreting a scale drawing
 Map work

3. Developing Algebra

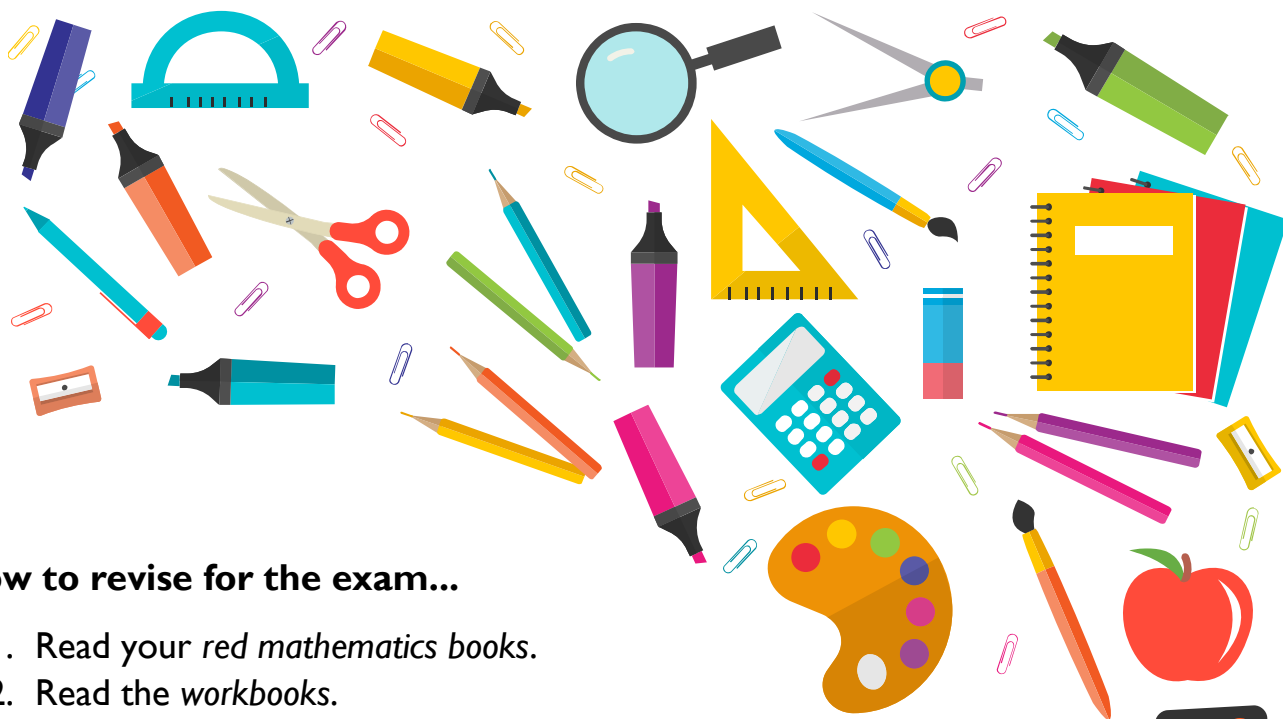
The n th term of a linear sequence
 Finding the position of a term
 Expanding algebraic expressions
 Expanding and simplifying two linear expressions
 Expanding and simplifying a double bracket

Brackets containing more than two terms
 Equations of the form $a(bx + c) = d$
 Equations of the form $a(bx + c) = d(ex + f)$
 Equations of the form $(x + a)(x + b) = 0$
 Solving equations containing fractions

4. Data Handling and Statistics 3

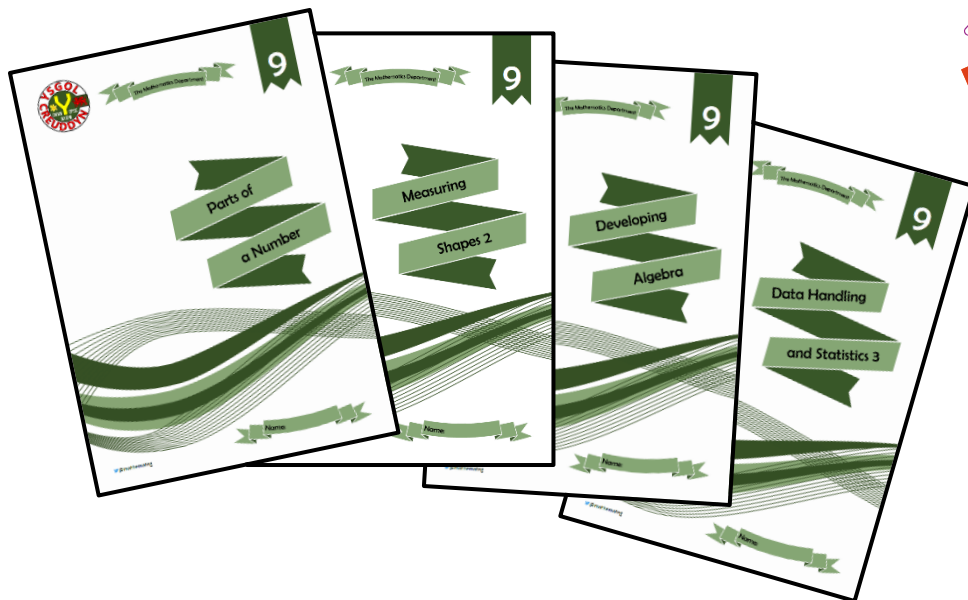
Probability of an event as a fraction
 Probability that an event will not happen
 Sample space diagrams
 Expected frequency
 Calculating the median of a data set
 Calculating the median from a frequency table

Comparing two distributions using the median
 The median class / estimate of the median
 Calculating the interquartile range of a data set
 Completing a cumulative frequency table
 Drawing a cumulative frequency diagram
 Estimating the median and interquartile range from a cumulative frequency diagram



How to revise for the exam...

1. Read your *red mathematics books*.
2. Read the *workbooks*.



3. Read the *end of unit tests*, and the *reflection sheets*.
4. Watch the (Welsh) *revision videos* on YouTube.

Parts of
a Number



Measuring
Shapes 2



Developing
Algebra



Data Handling
and Statistics 3

