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

2. Measuring Shapes 2

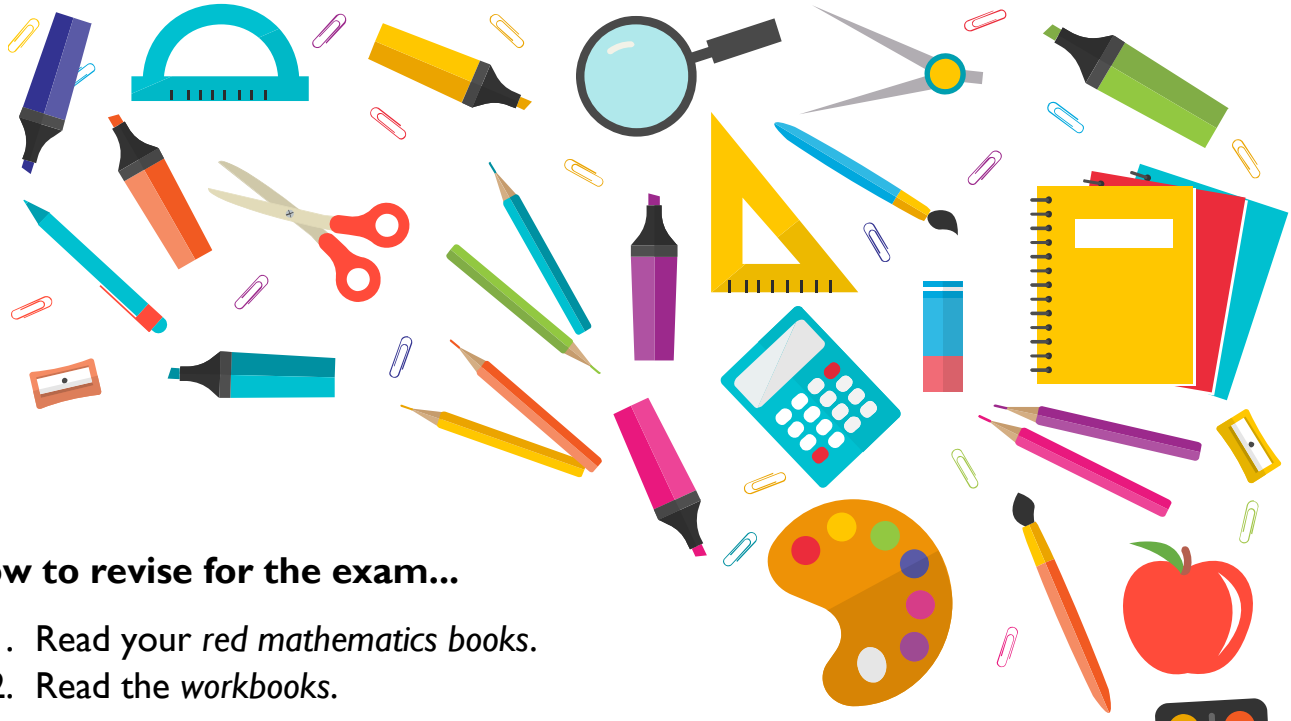
Circle terminology
Calculating the circumference of a circle
Calculating the area of a circle
Finding the radius from the area
Drawing solids on isometric paper
Drawing elevations of solids
Drawing a solid given a set of elevations
Pythagoras' theorem (2-D)
Proving whether a triangle is right-angled
Creating a scale drawing
Interpreting a scale drawing

3. Developing Algebra

The nth term of a linear sequence
Finding the position of a term
Expanding algebraic expressions
Expanding and simplifying two linear expressions
Expanding and simplifying using FOIL
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 $(ax + b)(cx + d) = 0$
Solving equations containing fractions
Trial and improvement

4. Data Handling and Statistics 3

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
Drawing a scatter diagram
Types of correlation
Drawing the line of best fit (2 methods)
Probability of an event as a fraction
Probability that an event will not happen
Sample space diagrams
Expected frequency
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