

Revision for Year 7 Maths Exams 7A5 & 7B4

Exams: You will sit two one hour papers.
The first will be non-calculator and the second calculator.

This booklet lists all of the topics that you have covered in your Maths lessons this year – if there is anything you are unsure about make sure you ask your Maths teacher.

Maths Revision Tips

- The only way to revise for Maths is to **DO** Maths! Some time making notes can be useful but most of your time must be spent answering questions, the websites below will be helpful for this;
 - **MyMaths** <https://mymaths.co.uk>
login: southam password: integer1
 - **BBC Bitesize** <https://www.bbc.com/education>
 - **EMaths** <https://emaths.co.uk/>
This has the old style SATS papers but they are still a good way to practice your Maths.
- Start with the topics you find most difficult, going over things you can already do is a waste of your time.
 - Get help if you don't understand something.
- Practice using your calculator – it is important that you know how YOUR calculator works as they are all different.

Tables and pictograms	<ul style="list-style-type: none"> Find information from tables and pictograms
Bar charts	<ul style="list-style-type: none"> Find information from bar and bar-line charts Display data using bar and bar-line charts
Grouped Data	<ul style="list-style-type: none"> Organise data using a tally chart Understand and use frequency tables Understand and draw a grouped bar chart
Mode and modal class	<ul style="list-style-type: none"> Find the mode of a set of data Find the modal class of a set of data
Range and median	<ul style="list-style-type: none"> Find the range and median of a set of data Compare sets of data using their range, mode and median
Mean	<ul style="list-style-type: none"> Calculate the mean of a set of data
Adding	<ul style="list-style-type: none"> Add numbers together in different ways Round to the nearest 10 Approximate before adding
Subtracting	<ul style="list-style-type: none"> Subtract numbers in different ways Approximate before subtracting
Multiplying	<ul style="list-style-type: none"> Multiply numbers Recognise multiples Recognise square numbers Find roots of square numbers on a calculator
Dividing	<ul style="list-style-type: none"> Divide one number by another Use times tables to help you divide Use approximation to estimate division calculations
Multiplying and dividing by 10, 100 and 1000	<ul style="list-style-type: none"> Multiply and divide by 10, 100 and 1000
Using the four operations	<ul style="list-style-type: none"> Use addition, subtraction, multiplication and division Solve simple ratio and proportion problems
Positive and negative numbers	<ul style="list-style-type: none"> Use simple negative numbers Continue a sequence
Using functions	<ul style="list-style-type: none"> Find outputs of simple functions
Function machines	<ul style="list-style-type: none"> Describe simple functions using words or symbols
Simplifying expressions	<ul style="list-style-type: none"> Simplify expressions
Writing expressions	<ul style="list-style-type: none"> Write expressions given a description in words
STEM: Using formulae	<ul style="list-style-type: none"> Substitute positive integers into simple formulae written in words Substitute integers into simple formulae written in letter symbols
Writing formulae	<ul style="list-style-type: none"> Write simple formulae using words and letter symbols

Estimates and measures	<ul style="list-style-type: none"> Estimate and choose suitable units, to measure length, mass and capacity Draw lines to the nearest mm and measure lines to the nearest cm Read a variety of scales Record estimates to a suitable degree of accuracy
Decimals numbers	<ul style="list-style-type: none"> Read and write numbers in figures and words Understand, order, compare and use decimals for tenths and hundredths, including in measures Read and interpret scales using decimals
Metric units	<ul style="list-style-type: none"> Order metric units Convert between different units of measure Read and interpret scales Record measurements
Adding and subtracting decimals	<ul style="list-style-type: none"> Recognise and extend number sequences by counting in decimals Add and subtract decimals Extend mental methods of calculation, to include decimals
Rounding	<ul style="list-style-type: none"> Round decimals to the nearest whole number and nearest tenth Use a calculator and interpret the display in different contexts (decimals)
Multiplying and dividing decimals	<ul style="list-style-type: none"> Consolidate and extend mental calculation methods, including decimals Multiply and divide decimal numbers
FINANCE: Calculating with money	<ul style="list-style-type: none"> Use a calculator to solve worded problems involving money Round amounts on a calculator to 2 decimal places
Shapes	<ul style="list-style-type: none"> Identify triangles, squares and rectangles Recognise the properties of triangles, squares and rectangles
Symmetry in shapes	<ul style="list-style-type: none"> Describe the line symmetry of triangles, quadrilaterals and other shapes
More symmetry	<ul style="list-style-type: none"> Solve problems using line symmetry Describe rotational symmetry
Regular polygons	<ul style="list-style-type: none"> Identify polygons Understand the line and rotational symmetry of regular polygons
Perimeter	<ul style="list-style-type: none"> Find the perimeter of squares, rectangles and regular polygons Calculate the perimeter of shapes made from rectangles Solve problems involving the perimeter of squares and rectangles
Area	<ul style="list-style-type: none"> Use metric units to measure area Calculate the area of squares and rectangles

Comparing fractions	<ul style="list-style-type: none"> • Order fractions • Use fractions to describe parts of shapes
Equivalent fractions	<ul style="list-style-type: none"> • Identify equivalent fractions • Simplify fractions by cancelling • Change an improper fraction to a mixed number
Calculating with fractions	<ul style="list-style-type: none"> • Calculate simple fractions of quantities
Adding and subtracting fractions	<ul style="list-style-type: none"> • Add and subtract simple fractions
Introducing percentages	<ul style="list-style-type: none"> • Understand percentages as 'the number of parts per 100' • Write a percentage as a fraction or decimal
FINANCE: Finding percentages	<ul style="list-style-type: none"> • Calculate percentages
Number rules and relationships	<ul style="list-style-type: none"> • Use the priority of operations • Understand the rules of multiplication • Use the operation keys on a calculator
Multiples	<ul style="list-style-type: none"> • Recognise the multiples of 2, 5, 10 and 25 • Work out multiples
Multiplications	<ul style="list-style-type: none"> • Multiply 3 digit numbers by a single digit • Round numbers to the nearest 100 and 1000
Division	<ul style="list-style-type: none"> • Divide 3-digit numbers by a single digit • Decide whether you can divide a number by 2, 5, 9 or 10 • Begin to identify factors of numbers
Solving problems	<ul style="list-style-type: none"> • Solve problems involving multiplication and division • Use a calculator to solve multiplication and division problems
Factors and primes	<ul style="list-style-type: none"> • Find factors of numbers • Identify prime numbers
Common factors and multiples	<ul style="list-style-type: none"> • Recognise and use multiples, factors and primes • Find common factors and multiples • Work out the HCF and LCM of two numbers • Work out if a number is divisible by 3, 4 or 6
Right angles and lines	<ul style="list-style-type: none"> • Know a right angle is 90 degrees • Recognise quarter, half and three quarter turns • Recognise parallel and perpendicular lines • Use compass points
Measuring angles 1	<ul style="list-style-type: none"> • Recognise acute and obtuse angles • Measure acute angles • Label lines and angles
Measuring angles 2	<ul style="list-style-type: none"> • Recognise acute, obtuse and reflex angles • Measure obtuse angles
Drawing and estimating angles	<ul style="list-style-type: none"> • Estimate the size of angles • Draw acute angles
Putting angles together	<ul style="list-style-type: none"> • Find missing angles on a straight line • Find missing angles around a point