

## Year 8 Maths Revision Checklist

### Summer Examination

**Topic 1**      **Number 1** (Chapter 1 in textbook)

- Use mental maths skills
- Add and subtract whole numbers
- Use estimation skills

**Topic 2**      **Number 2** (Chapter 2)

- Multiply and divide whole numbers
- Use the correct order of operations for calculations

**Topic 3**      **Number and Patterns** (Chapter 4)

- Recognise prime, square and cube numbers
- Understand multiples and factors
- Spot patterns in lists of numbers
- Generate a sequence using a rule

**Topic 4**      **Angles** (Chapter 10)

- Estimate angles
- Measure and draw angles using a protractor
- Understand the compass points

**Topic 5**      **Algebra** (Algebra booklet)

- Simplify expressions
- Solve simple equations
- Substitute numbers for letters in an expression

**Topic 6**      **Managing Information** (Chapters 3 & 22 and worksheets)

- Organise data using tally charts
- Draw bar charts, line graphs, pictograms and pie charts
- Understand what discrete data is and how to group it

**Topic 7**      **Symmetry** (Chapter 11)

- Understand line symmetry
- Understand rotational symmetry
- Find planes of symmetry in a 3D shape

**Topic 8**      **Triangles, Angles and Quadrilaterals** (Chapter 12)

- Know sum of angles in a triangle
- Construct triangles using compasses and protractor
- Identify and name different types of triangle and quadrilateral

- Topic 9**      **Probability** (Chapter 13)
- Understand and use the probability scale
  - Use correct notation for writing probability
  - Understand relative frequency
- Topic 10**      **Algebra 2** (Algebra Booklet)
- Multiply algebraic terms together
  - Solve equations involving fractions
  - Solve equations needing more than one step
- Topic 11**      **Co-ordinates** (Chapter 16)
- Plot and write down co-ordinates involving positive and negative numbers
  - Draw shapes using co-ordinates
- Topic 12**      **Fractions, Decimals and Percentages** (Chapters 5 & 6)
- Understand and use numerators, denominators and equivalent fractions
  - Write a fraction as a decimal/percentage and vice versa
  - Find a fraction of a quantity
  - Add and subtract fractions/decimals
  - Understand and use mixed numbers and improper fractions
- Topic 13**      **Parallel Lines and Angles** (Chapter 15)
- Understand and use corresponding, alternate and interior angles
  - Solve problems involving these angles
- Topic 14**      **More Decimals** (Chapter 7)
- Multiply and divide decimals
  - Round numbers to a certain number of decimal places

As well as using your jotters and homeworks for revision, there are several green pages in the text book which provide summary exercises that can be used at the end of certain chapters. MyMaths is another very useful resource – it will provide you with worked examples and extra questions to try on each topic that you have studied this year.