

# Preparing for your Year 9 mathematics examination this summer

## How should I revise maths?

### To get started:

- Find a quiet place to study without distractions
- Get a pen and paper handy to begin and go through your checklist to decide which topics you need to focus on first

### Then: **PRACTICE ANSWERING QUESTIONS AS MUCH AS YOU CAN**

- Remind yourself of the key learning points and check you understand the worked examples in your exercise book
- Work through examples from your text book and use mymaths to help you understand the material
- Test yourself after you have completed a topic, using the online homeworks and revision exercises in the text book
- Complete all of the Revision Booklets of targeted questions provided by your teacher, mark your answers and seek help if you do not understand.

By practising questions you will become more familiar with the material and the style of questions. It will help you feel well prepared and confident ready for the examination.

## What should I revise?

- Revision checklists for all of the mathematical topics you study are available on the school website under the Curriculum -> Maths menu option, scroll down until you find details for **Year 9**.
- **This year, the Year 9 test will cover the topics listed on page 2 of this document.**
- Calculators may be used in the exam.

## What resources should I use?

- [www.mymaths.co.uk](http://www.mymaths.co.uk) username: bishopws password: nineteen
  - Use the lessons to revise specific topics
  - Use the online homeworks to check your understanding
- Your exercise book will include key learning points and worked examples
- Refer to the digital textbook 'AQA GCSE Maths Higher' using your individual Kerboodle login
- Revision booklets provided by your teacher in the 2 weeks before the exam week.
- Revision guides and work books (mainly GCSE)
- Attend maths club on Thursday lunchtime at 12 noon in W10

## What should I do if I need more help with specific topics?

- Work through the material on mymaths to improve your understanding
- Look at worked examples in your book to remind you how to solve the problems
- Come to maths club on Thursday lunchtime for extra help
- Ask your teacher for help

## Year 9 Maths Revision Topics for End of Year Exam

Topic	Section in book	Happy? Need more work?
<b>Calculations</b>		
Place value and rounding	1.1	
Negative numbers and BIDMAS	1.2 – 1.3	
<b>Expressions</b>		
Algebra - simplifying expressions; collecting like terms	2.1	
Laws of indices	2.2	
Algebra – multiplying out single brackets “expanding”	2.3	
Algebra - factorising; taking out a common factor	2.3	
Simplifying algebraic fractions	2.4	
<b>Angles and Polygons</b>		
Angles and lines – basics including parallel lines	3.1	
Angles and lines – 3 figure bearings	3.1 (page 46)	
Triangles and Quadrilaterals	3.2	
Congruence and Similarity	3.3	
Polygon angles; interior and exterior	3.4	
<b>Handling Data</b>		
Representing Data; charts and tables	4.1	
Averages and Spread; mean, mode, median, range and IQR	4.2	
Frequency Diagrams (grouped data) including Histograms	4.3	
<b>Fractions, Decimals and Percentages</b>		
Fractions Percentages of quantities	5.1	
Calculations with fractions (all four operations; written methods with no calculator)	5.2	
Converting between Fractions, Decimals and Percentages	5.3	
<b>Pythagoras, Trigonometry and working in 2D</b>		
Pythagoras’ Theorem – finding the length of the hypotenuse or a shorter side	19.1	
Trigonometry, sine, cosine and tangent – finding missing sides and angles	19.2	
Measuring lengths and angles - Scale Drawings and Bearings	7.1	
Area of 2D shapes	7.2	
Transformations (rotation, reflection, translation and enlargement), including compound transformations and invariance	7.3 – 7.4	
<b>Probability</b>		
Probability Experiments	8.1	
Theoretical Probability	8.2	
Mutually Exclusive events, exhaustive events	8.3	
<b>Measures and Accuracy</b>		
Estimation and Approximation (non calculator)	9.1	
Calculator methods	9.2	
Measures and Accuracy – compound measures	9.3 (p. 176)	
Measures and Accuracy – upper and lower bounds	9.3 (P. 178)	

