Subject	Mathematics		
Title/Topic	**Format**	**Length**	**WC**
Paper 1 – Non-Calculator	Written Paper	45 minutes	23rd Nov
Paper 2 – Calculator Allowed	Written Paper	45 minutes	23rd Nov

In this Advent assessment I will be asked to show I can…

You will sit **two assessment papers** in the Advent term. Each assessment will be of equal challenge but they will progress in difficulty through the paper. They will test you on your understanding of the concepts studied so far in Year 9 which build upon your study in years 7 and 8. The **core concepts** you will be tested on are listed below, but this is not an exclusive list as questions may also draw on any content you studied in year 7 and year 8.

Unit 1 – Straight Line Graphs Core Concepts

- Draw and label lines parallel to the x and y-axes, y = x and y = -x
- Compare gradients
- Compare intercepts
- Understand and use y = mx + c
- Draw a graph of the form y = mx + c
- Find the equation of a line from a graph
- Interpret gradients and intercepts from real-life graphs

Unit 2 – Forming & Solving Equations Core Concepts

- Solve one and two-step equations and inequalities
- Solve one and two-step equations and inequalities with brackets
- Inequalities with negative numbers
- Form and solve equations with unknowns on both sides
- Substituting into formulae and equations
- Rearrange both simple and complex formulae including brackets and squares

Unit 3

- Expand a pair of binomials (double brackets)

Unit 4 - Three-Dimensional Shapes Core Concepts

- Know names of 2-D and 3-D shapes
- Sketch and recognise nets of cuboids and other 3-D shapes
- Find area of 2-D shapes
- Plans and elevations
- Surface area of cubes and cuboids
- Volumes of cubes and cuboids
- Volumes of other 3-D shapes – prisms and cylinders

Unit 5 – Constructions and congruency

- Measure and draw acute, obtuse and reflex angles

What should I do to revise and prepare for this assessment?

1. **Complete your revision workbook** that your teacher has provided you. You should work through all the questions in your revision workbook, checking your work using the answers provided. You could ask your parent or relative to check your work with you, and discuss the areas you need to revisit. This revision workbook must be completed in full and handed in to your teacher for checking the day of your first assessment.
2. **Read carefully through your lesson notes** in each workbook. Look out for the key information that you have written down or highlighted that your teacher said was an important learning point.
3. **Study the knowledge organisers** for the units being tested. They can be found at the back of each of the workbooks that you have completed so far. You should use the technique of **'look, cover, check'**

What useful websites/resources could I use to help me prepare?

www.sparxmaths.uk

- In your revision booklet there are Sparx code links to most of the topics. You will need to go to the Independent learning section rather than homework on Sparx, Choose Key Stage 3 from the drop-down curriculum tab and choose level 2 – you can change this level if the questions are too easy/too hard. Type the code in from the revision booklet to get questions on that particular small step. Good luck!