



Subject	Mathematics		
Title/Topic	Format	Length	WC
Paper 1 – Non Calculator	Written Paper	45 minutes	28 November
Paper 2 – Calculator Allowed	Written Paper	45 minutes	28 November
Paper 3 – Calculator Allowed	Written Paper	45 minutes	28 November

My Advent assessment will test my knowledge on...

You will sit **three 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 8 which build upon your study in Year 7. The **core concepts** you will be tested on are listed below, but this is not an exclusive list as questions may draw on any content we have covered so far in Year 8 & 7.

Unit 1 – Ratio & Scale Core Concepts

- Divide in a given ratio
- Express ratios in their simplest integer form
- Express ratios in the form 1 : n
- Compare ratios and related fractions

Unit 2 – Multiplicative Change Core Concepts

- Solve problems involving direct proportion
- Explore conversion graphs
- Convert between currencies
- Explore direct proportion graphs
- Explore similar shapes

Unit 3 – Multiplying & Dividing Fractions Core Concepts

- Find the product of any pair of fractions
- Understand and use the reciprocal
- Divide any pair of fractions
- Multiply and divide improper and mixed fractions
- Multiply and divide algebraic fractions

Unit 4 - Working in the Cartesian Plane Core Concepts

- Identify and draw lines that are parallel to the axes
- Recognise and use the line $y=x$
- Explore the gradient of the line $y=kx$
- Explore graphs with negative gradient
- Plot graphs of the form $y=mx+c$



Unit 5 – Representing Data Core Concepts

- Understand and use linear correlation
- Draw and use a line of best fit
- Read and interpret grouped frequency tables
- Represent data in two-way tables
- Find probabilities from a sample space
- Find probabilities from two-way tables
- Find probabilities from Venn diagrams

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

To prepare for this assessment:

1. Look at the **results from your knowledge checks** which are recorded at the back of each of your workbooks and also on go4schools. Look to see which small steps you dropped marks on. **Re-watch the lesson videos** available on the school website and revisit the questions on these topics in your workbook. Focus in particular on any small steps which are listed as core concepts above.
2. **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.
3. **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.
4. **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'** to ensure you can recall all of the key facts and techniques.
5. **Listen attentively during your Immersion Revision Session** which will take place the week before your assessment. Your teacher will provide you with a number of key tips to help you succeed. They will revisit the core concepts listed above.

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

All Year 8 Advent Resources and solutions (including the workbook) can be found here:

<https://www.delisle.org.uk/3259/year-8-maths-advent>

You can also access revision lessons on Hegarty Maths. Use the links in your workbook to direct you to the most appropriate videos.

<https://www.hegartymaths.com>