Year 7 - Advent Assessments 2022

Subject	Mathematics		
Title/Topic	**Format**	**Length**	**WC**
Paper 1 – Non Calculator	Written Paper	45 minutes	5 December
Paper 2 – Calculator Allowed	Written Paper	45 minutes	5 December
Paper 3 – Calculator Allowed	Written Paper	45 minutes	5 December

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 7 which build upon your study in primary school. 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 7.

Unit 1 – Sequences Core Concepts
* Predict and check the next term(s) of a sequence
* Recognise the difference between linear and non-linear sequences
* Continue numerical linear sequences
* Continue numerical non-linear sequences

Unit 2 – Algebraic Notation Core Concepts
* Given a numerical input find the output of a single function machine
* Use inverse operations to find the input given the output
* Find the function machine given a simple expression
* Find numerical inputs and outputs for a series of two function machines
* Substitute values into two-step expressions
* Generate sequences given an algebraic rule

Unit 3 – Equality & Equivalence Core Concepts
* Solve one-step linear equations involving + or –
* Solve one-step equations involving x or ÷
* Understand the meaning of like and unlike terms
* Simplify algebraic expressions by collecting like terms

Unit 4 - Place Value & Ordering Integers and Decimals Core Concepts
* Recognise the place value of any integer up to one billion
* Round integers to the nearest power of ten
* Compare two numbers using =. ≠, <, >, ≤, ≥
* Understand place value for decimals
* Position decimals on a number line
* Round a number to one significant figure

Unit 5 – Fraction, Percentage & Decimal Equivalence Core Concepts

- Convert between fractions & decimals- tenths and hundredths
- Convert between fractions and decimals – fifths and quarters
- Convert between fractions and decimals – eighths and thousandths
- Identify and use simple equivalent fractions
- Convert fluently between fractions, decimals and percentages

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 7 Advent Resources and solutions (including the workbook) can be found here:

https://www.delisle.org.uk/3239/year-7-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