Subject	Mathematics		
Title/Topic	Format	Length	Week Commencing
Paper 1 – Units 9, 10 & 11	Written assessment	50 minutes	19 June
Paper 2 – Units 1-8	Written assessment	50 minutes	19 June

This assessment will test my knowledge on…

Higher Tier only content in bold

Paper 1 – Unit 9, 10 & 11
- Calculate simple and compound interest, convert between fractions, decimals and percentages, find repeated percentage change and work out percentages of amounts. **Understand the iterative process.**
- Use experimental data to estimate probabilities, find probabilities from Venn diagrams and frequency trees and use tree diagrams to explore independent and dependent events. **Construct and interpret conditional probabilities.**
- Collect, represent and interpret data, knowing the difference between primary and secondary data, construct frequency polygons and tables, construct and interpret bar and line charts, find and interpret averages, compare distributions, construct and interpret scatter graphs and draw and use lines of best fit. **Construct and interpret histograms, stratified samples, cumulative frequency diagrams and box plots.**

Paper 2 – A selection of topics from units 1 – 8
- Enlarge shapes, identify and find angles in similar shapes and parallel lines and understand how to use congruent triangles. **Area and volume of similar shapes, enlarge with negative scale factors and prove congruency.**
- Use Pythagoras' theorem and understand how to use SOHCAHTOA to find missing angles and sides using trigonometry. **Trigonometry in 3D shapes, use the sine rule and cosine rule and also find the area of triangles using 1/2absinC.**
- Solve one-step and two-step algebraic equations and inequalities and represent solutions on graphs and form and solve equations and inequalities with unknowns on both sides. **Represent inequalities on graphs and solve quadratic equations and inequalities.**
- Solve and form pairs of linear simultaneous equations algebraically and using graphs. **Solve simultaneous equations algebraically and graphically where one equation is quadratic or where there is a third unknown.**

- Understand and represent bearings, make scale drawings and calculate bearings using angle rules including using trigonometry and Pythagoras. **Solve bearings problems using the cosine and sine rules.**
- Calculate with circles finding arc lengths and the area of sectors, understand how to find the volume of cylinders, cones and spheres and find the surface area of those shapes. **Solve problems using circle some basic circle theorems and solve area and volume problems with similar shapes.**
- Understand, represent, draw and calculate with vectors using the correct notation. **Use vectors in shapes and parallel situations.**
- Compare and share amounts into given ratios, link ratios and fractions, solve problems with currency and best buy scenarios and link ratios to graphs and algebra. **Solve ratio problems with area and volume.**

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

To prepare for this assessment:

1. Look back at the **question level analysis feedback from your Lent & Advent assessments** on go4schools to see which topics you did well on and which need your attention.
2. Work through, complete and self-mark the questions in your **End of Year Revision Booklet**. Use this to diagnose the units you need to focus your revision on
3. Complete the **practice assessment** and self-mark (or ask a parent to do it for you)
4. Once you have diagnosed the topics with which you want to do further practice, use the **Sparx codes sheet to access the independent learning tasks** for those topics. You can practice questions and watch the supporting videos to help you. Once you have revised each topic, tick them off as completed on your list.
5. Use look, cover, check using the **knowledge organisers** in your workbook.
6. Review the results from your unit **knowledge check assessments** at the back of your workbooks and revisit the small steps for which you have weakness.
7. You should **re-watch the lesson videos** for your identified weaknesses and try the worksheet and check it questions.

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

You can access all the resources from this academic year here:
https://www.delisle.org.uk/4757/year-10-maths-advent
https://www.delisle.org.uk/4766/year-10-maths-lent
https://www.delisle.org.uk/4768/year-10-maths-pentecost

You can use Sparx Revision List located in your revision workbook to pick out topics on independent learning on Sparx that could help you with your revision. You will also find the knowledge organisers at the back of your unit workbooks and in the revision booklet.

www.sparxmaths.uk/student