"Success is not final, failure is not fatal: it is the courage to continue that counts."

- Winston Churchill

## Year 10 Higher W&AW 2 Revision Topics

These are the topics that you have covered so far this year. These topics, if they appear on the assessment will be the ones that your teacher will be looking closely at how well you answer them.

Topic	Sparx Maths Independent Practice Codes
Rounding & Estimating	U480, U298, U731, U965, U225
Area	U993, U265, U970, U945, U424
Perimeter	U351, U993
Volume	U786, U174, U484, U915, U116, U617
Surface Area	U142, U464, U523, U893, U929, U259, U871
Prime Factorisation	U739
Indices	U299, U985, U772
Surds	U633, U338, U707, U281, U499, U872
Simplifying Expressions	U105, U662
Expanding	U179, U768
Factorising	U365, U178, U963
Solving Equations	U505, U755, U325, U870,
Rearranging Formulae	U556
Factorising Quadratics	U178, U858
Solving Quadratics	U228, U960
Quadratic Formula	U665
Completing the Square	U397, U589
Fractions, Decimals & Percentages	U888, U594

<u>NOTE</u>: There will be other topics covered in the assessments, some are untaught topics, some are topics that have been taught at KS3. This is to help you work on your exam skills of scanning for the questions you are able to access which is a key skill to do well in your maths GCSE exam.

"Success isn't overnight. It's when every day you get a little better than the day before. It all adds up" – Dwayne Johnson

"Success is not final, failure is not fatal: it is the courage to continue that counts."

- Winston Churchill

## Year 10 Higher WDAW 2 Revision Topics

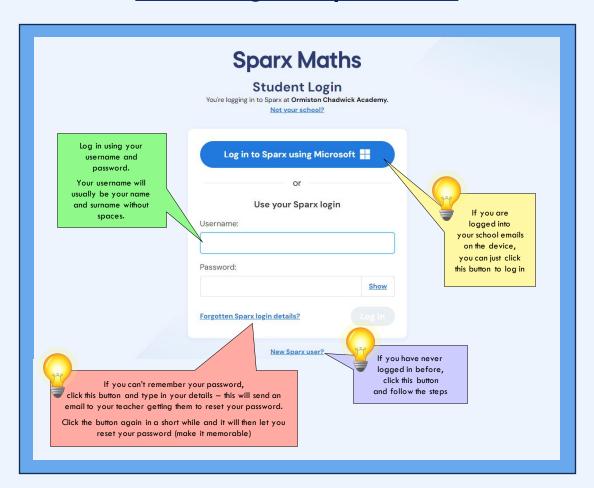
These are the topics that you have covered so far this year. These topics, if they appear on the assessment will be the ones that your teacher will be looking closely at how well you answer them.

Topic	Sparx Maths Independent Practice Codes
Percentages	U554, U349, U773, U671
Fractions	U881, U916, U736, U475, U544
Ratio	U687, U753, U577, U921, U676
Proportion	U721, U610
Pythagoras' Theorem	U385
Right-Angled Trigonometry	U605, U283, U545, U627
Bounds	U587
Standard Form	U330, U534, U290, U264, U161
Speed	U151
Distance Time Graphs	U462
Cylinders, Cones & Spheres	U464, U915, U116, U523, U617, U893, U484, U871
Density	U910
Pressure	U527
Cumulative Frequency	U182, U642, U507
Box Plots	U879, U837, U507
Histograms	U814, U983, U267
Sequences	U489, U958, U206

NOTE: There will be other topics covered in the assessments, some are untaught topics, some are topics that have been taught at KS3. This is to help you work on your exam skills of scanning for the questions you are able to access which is a key skill to do well in your maths GCSE exam.

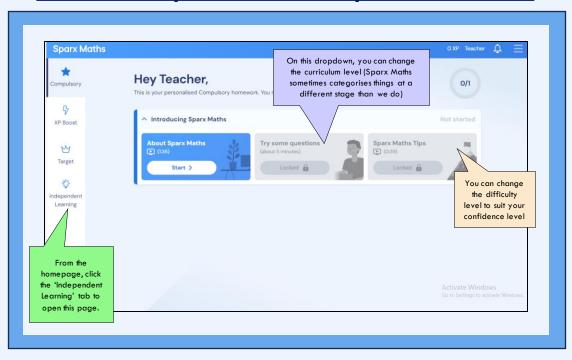
"Success isn't overnight. It's when every day you get a little better than the day before. It all adds up" – Dwayne Johnson

## **How to Log Into Sparx Maths**

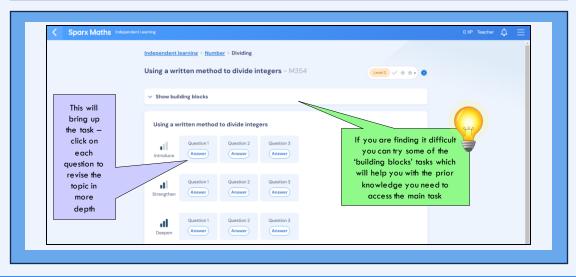




### **How to do Sparx Maths independent Practice**

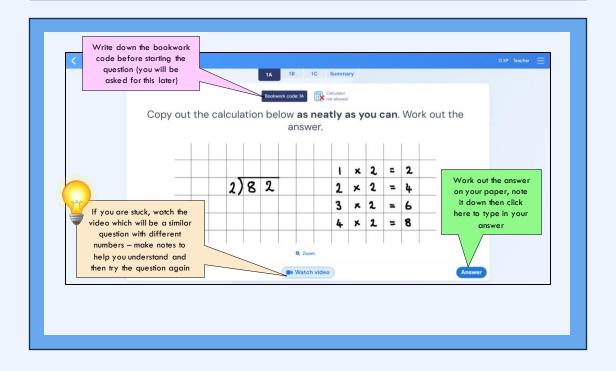






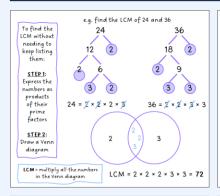
#### How to complete a Sparx Maths task

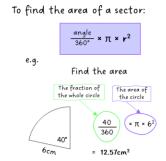
BEFORE beginning the task you need to have paper to do your working out and to write down the bookwork codes. Sparx Maths Independent learning | Number | Dividing Using a written method to divide integers - M354 Level 2 ✓ ★ ★ ▼ ① Show building blocks This will bring up Using a written method to divide integers the task – click on If you are finding it difficult you can try some of the each 'building blocks' tasks which question to will help you with the prior revise the topic in knowledge you need to access the main task more depth

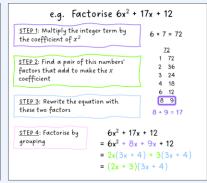


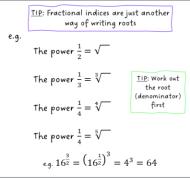
#### "Mistakes are the stepping stones to wisdom." - Oprah Winfrey

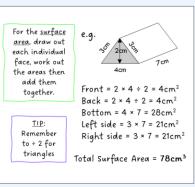
# Some Key Examples for Questions we have covered that can come up

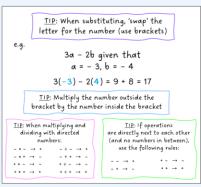




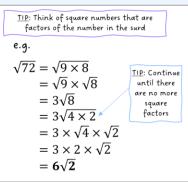


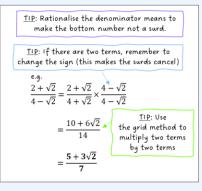




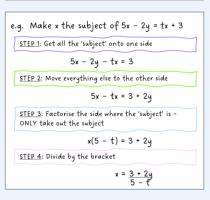


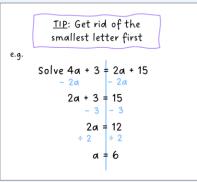
TIP: If the index (power) is negative, it means the reciprocal e.g.  $5^{-2} \text{ means the reciprocal of } 5^2$  so  $\frac{1}{25}$   $16^{-\frac{1}{2}} \text{ means the reciprocal of } 16^{\frac{1}{2}}$  so  $\frac{1}{4}$ 





TIP: Remember a quadratic equation needs to = 0 before you factorise it!  $6x^2 + 17x + 12 = 0$   $6x^2 + 8x + 9x + 12 = 0$  2x(3x + 4) + 3(3x + 4) = 0 (2x + 3)(3x + 4) = 0TIP: For two things to multiply together to = 0, one of the things must be zero  $2x + 3 = 0 \quad 3x + 4 = 0$   $2x = -3 \quad 3x + 4 = 0$   $2x = -3 \quad 3x + 4 = 0$   $2x = -3 \quad 3x + 4 = 0$   $2x = -3 \quad 3x + 4 = 0$   $2x = -3 \quad 3x + 4 = 0$   $2x = -3 \quad 3x + 4 = 0$   $3x = -3 \quad 4x + 4 = 0$   $4x = -3 \quad 4x + 4 = 0$   $5x = -3 \quad 4x +$ 





The most important thing to remember is not to give up – if you write nothing for a question, you will definitely get it wrong, so have a guess, you will get marks for working out.