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

## Year 9 WeAl 2 Revision Topics

Revising for a maths exam is not about simply reading through notes. To improve and make progress with maths you need to 'do maths' - do lots of questions on topics that you need to become more confident with.

Use these codes in the Spark Maths Independent Practice section of the website to enable you to effectively revise for your assessment and showcase your true mathematical ability.

| Topic | Spare Maths Independent Practice Codes |
| :--- | :---: |
| Estimating | M878 |
| Directed Number Calculations | M106, M288 |
| Mixed Number Operations | M601, M265, M931, M197, M619 |
| Fractions, Decimals \& Percentages | U533, U332 M958 |
| Interest | M528 |
| Original Value Problems | M885, M801, M525, M543 |
| Ratio | M237, M792, M960 |
| Expanding | M100 |
| Factorising | M707, M634, M957 |
| Forming \& Solving Equations | M184 |
| Changing the Subject of a Formulae | M888, M205 |
| Equation of a Line | M478, M681 |
| Proportion | M534, M661, M936 |
| Surface Area |  |

NOTE: These are all the topics we have covered this year, some aspects of each of the topics will be assessed in the assessment
"Success is n'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

## Sparx Maths

## Student Login

You're logging in to Sparx at Ormiston Chadwick Academy.
Not your school?

## Log in using your username and password.

Your username will usually be your name and surname without spaces.


Forgotten Sparx login details?
click this button and type in your details - this will send an email to your teacher getting them to reset your password.

Click the button again in a short while and it will then let you reset your password (make it memorable)

You will then be brought to the following page where you will find any compulsory homework set for you by your teacher you need to be completing this weekly to ensure you are retrieving the knowledge that you have learnt throughout the year.


## 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.


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

## Key Examples for Year 9 wis AW 2

TIP: To estimate answers to
calculations, round all
numbers to 1 s.f. before
calculating.
e.g. $\quad 3453 \times 253$
$\approx 3000 \times 300$
$=900000$

| To write a ratio as a fraction: |  |
| :--- | :--- |
|  | Part you want <br> Total parts |
| eeg. $\quad$ |  |
| boys : girls |  |
| 5 | $: 8 \quad(5+8=13)$ |
| $\frac{5}{13}$ are boys | $\quad \frac{8}{13}$ are boys |








Paul and Luke share some money in the ratio 4:7. Paul gets $£ 12$ less than Luke. How much did they have in total?
$P$ : L Total Difference $\begin{array}{c:ccc}4: & 7 & 11 & 3 \\ 16 & : & 28 & 44\end{array}$

They had £44 in total
TIP: When there are 3 numbers in the
ratio, only include a difference column
when it says 'less/more than'

## egg.

Factorise $4 a+20$
TIP: Think of the highest
common factor of both terms
The HCF of $4 a$ and 20 is 4
So divide both terms by 4
$4 a \div 4=a$
$+20 \div 4=+5$
$=4(a+5)$


| TIP: To turn a fraction to a |
| :---: |
| percentage, make the |
| denominator 100: |

e.g.
$\frac{13}{20}=\frac{35}{100}=35 \%$
$\frac{52}{100}=35 \%$

| TIP: Use the grid method |
| :--- |
| for double brackets |

egg.
Expand and simplify

$$
(x+2)(x+3)
$$


$=x^{2}+2 x+3 x+6$
$=x^{2}+5 x+6$


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.

