"success is not final, failure is not fatal: it is the courage to continue that counts." - Winston Churchill
Year 11 Foundation Revision Jopics
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.

| Number Topic | Sparx Maths Independent Practice Codes |
| :---: | :---: |
| Ordering positive integers | U600 |
| Ordering decimals | U435 |
| Ordering negative numbers | U947 |
| Adding and subtracting positive integers | U417 |
| Multiplying and dividing positive integers | U127, U453 |
| Adding and subtracting negative numbers | U742 |
| Multiplying and dividing negative numbers | U548 |
| Adding and subtracting decimals | U478 |
| Multiplying and dividing with place value | U735 |
| Multiplying and dividing with decimals | U293, U868 |
| Order of operations | U976 |
| Prime numbers, prime factorisation | U236, U739 |
| Factors, multiples, HCF and LCM | U2 1 1, U751, U529 |
| Powers and roots | U851 |
| Using standard form | U330, U534 |
| Calculating with standard form | U264, U290, U161 |
| Equivalent fractions and simplifying fractions | U704, U646 |
| Mixed numbers and improper fractions | U692 |
| Ordering fractions | U746 |
| Addition and subtraction of fractions | U736, U793 |
| Multiplication and division of fractions | U475, U544 |
| Converting and ordering fractions, decimals and percentages | U888, U594 |
| Fractions of amounts | U881, U916 |
| Percentages of amounts | U554, U349 |
| Percentage change | U773, U671 |
| Reverse percentages | U286, U278 |
| Simple interest | U533 |
| Rounding | U480, U298 |
| Fractions | U224, U538, U793 |
| Factors, multiples and primes | U739, U250 |
| Percentage change | U671, U332, U988 |
| Standard form | U330, U534, U264, U290 |
| Error intervals | U657 |

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

## Year 11 Foundation Revision Jopics

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| Algebra Topic | Sparx Maths Independent Practice Codes |
| :--- | :---: |
| Algebraic expressions | U613 |
| Collecting like terms | U105 |
| Substitution | U201, U585, U144 |
| Expanding brackets | U179, U768 |
| Factorising expressions | U365 |
| Index laws | U235, U694, U662, U103 |
| Changing the subject | U556 |
| Coordinates | U789, U889 |
| Midpoints | U933 |
| Plotting straight line graphs | U741 |
| Equations of straight line graphs | U315, U669 |
| Parallel lines | U377 |
| Distance-time graphs | U403, U914, U462, U966 |
| Quadratic graphs | U989, U667 |
| Linear equations | U755, U325, U870, U505, U599 |
| Quadratic expressions and equations | U213, U530, U228 |
| Linear sequences | U958, U680 |
| Other sequences | U325, U870, U599 |
| Linear equations | U759, U738, U145, U337 |
| Linear inequalities | U662 |
| Index laws | U760, U757, U836, U137 |
| Linear simultaneous equations | U315, U669, U477, U848, U377 |
| Linear graphs and coordinates | U989, U667, U228, U601 |
| Quadratic graphs and equations |  |

## Year 11 Foundation Revision Jopics

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| Ratio \& Proportion Topic | Sparx Maths Independent Practice Codes |
| :---: | :---: |
| Simplifying ratios | U687 |
| Sharing amounts in a ratio | U753, U577 |
| Converting between ratios, fractions and percentages | U176 |
| Direct proportion | U721, U640 |
| Inverse proportion | U357, U364 |
| Proportion graphs | U238 |
| Units of measure: Length, Mass and Capacity | U102, U388 |
| Units of measure: Time | U902 |
| Units of measure: Area | U248 |
| Currency conversion | U610 |
| Conversion graphs | U652, U638, U862 |
| Compound units: Speed | U151 |
| Ratio | U687, U753, U176, U577, U921, U865 |
| Speed | U151 |
| Density and pressure | U910, U527 |
| Proportion | U72 1, U357, U610 |

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| Geometry Topic | Sparx Maths Independent Practice Codes |
| :---: | :---: |
| Properties of 2D shapes | U121, U849 |
| Properties of 3D shapes | U719 |
| Nets of 3D shapes | U761 |
| Angles: Measuring, Drawing and Estimating | U447 |
| Angle on a line and about a point | U390 |
| Vertically opposite angles | U730 |
| Angles on parallel lines | U826 |
| Angles in a triangle | U628 |
| Combining angle facts | U655 |
| Angles in a quadrilateral | U732, U329 |
| Angles in polygons | U427 |
| Bearings | U525, U107 |
| Translations | U196 |
| Reflections | U799 |
| Enlargements | U519 |
| Rotations | U696 |
| Congruence | U790, U866 |
| Area and perimeter of simple shapes | U993, U970, U351, U226 |
| Area of triangles, parallelograms and trapeziums | U945, U575, U424, U265, U343 |
| Circles | U767 |
| Circumference | U604, U22 1 |
| Circle area | U950, U373 |
| Surface area | U929, U259, U871 |
| Volume of cuboids | U786 |
| Volume of prisms and cylinders | U174, U915 |
| Similar shapes | U551, U578 |
| Scale diagrams | U257 |
| Properties of 2D shapes | U121, U849 |
| Area | U226, U343, U950 |
| Volume | U786, U174, U915 |
| Angles | U655, U826, U329, U427 |
| Pythagoras' theorem | U385 |
| Trigonometry | U605, U283, U545 |

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| Probability Topic | Sparx Maths Independent Practice Codes |
| :--- | :---: |
| Probability scale | U803 |
| Probability of single events | U408, U510, U683 |
| Experimental probability | U580 |
| Expected outcomes | U166 |
| Calculating probabilities | U408, U510, U683, U580 |
| Listing elements in a set | U748, U296 |
| Probability from Venn diagrams | U476 |
| Frequency trees | U280 |
| Sample space diagrams | U104 |
| Tree diagrams | U558, U729 |


| Statistics Topics | Sparx Maths Independent Practice Codes |
| :--- | :---: |
| Collecting data, frequency tables | U322, U1 20 |
| Two-way tables | U981 |
| Bar charts | U363, U557 |
| Pictograms | U506 |
| Pie charts | U508, U172 |
| Stem and leaf diagrams | U200, U909 |
| Mode | U260 |
| Mean | U291 |
| Median | U456 |
| Range | U526 |
| Choosing averages | U717 |
| Scatter graphs | U199, U277, U128 |
| Averages | U569 |
| Averages with grouped data | U877 |
| Sampling | U162 |
| Frequency polygons | U840 |

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## How to Log Into Sparx Maths

## Sparx Maths

## Student Login

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


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 Frequent Questions

e.g. Find $\frac{2}{3}$ of 12

STEP 1: Divide the amount by the denominator (bottom number)
$12 \div 3=4$
STEP 1: Multiply the answer by the numerator
$4 \times 2=8$

| $\begin{array}{l}\text { TIP: When substititing. } \\ \text { Sswap' the letter ofr the } \\ \text { number (use brackets) }\end{array}$ |
| :--- |

e.g.
$3 a+2 b$ given that
$a=3, b=4$
$3(3)+2(4)=9+8=17$
TIP: Multiply the number
outside the bracket by the
number inside the bracket

TIP: Multiples are the
numbers in your times tables
e.g.
The multiples of 6 are
6, 12, 18, 24, 30, ...
What is the 7 th multiple of 6 ?
$7 \times 6=42$
What is the $10^{\text {th }}$ multiple of 16 ?

$$
10 \times 16=160
$$



> TIP: To find a percentage of an amount:
> Percentage $\times$ Amount $\div 100$
e.g.

Find $82 \%$ of 444 .
$82 \times 444 \div 100=\underline{364.08}$


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.

