

## Year 11 PPE3 Higher Paper 1 Non Calculator Topic List Feb 2024

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Answer questions, show all working out in your book

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| <b>Topic</b>                                             | <b>Sparx</b> | <b>Revised?</b> |
|----------------------------------------------------------|--------------|-----------------|
| Finding the lowest common multiple (LCM)                 | U751         |                 |
| Angles in polygons                                       | U427         |                 |
| Calculating midpoints                                    | U933         |                 |
| Using the correct order of operations                    | U976         |                 |
| Simplifying expressions by collecting like terms         | U105         |                 |
| Index rules with positive indices                        | U235         |                 |
| Index rules with negative indices                        | U694         |                 |
| Interpreting scatter graphs                              | U277         |                 |
| Using lines of best fit                                  | U128         |                 |
| Finding percentages of amounts without a calculator      | U554         |                 |
| Area of rectangles and compound shapes                   | U934         |                 |
| Writing and simplifying ratios                           | U687         |                 |
| Solving quadratic equations graphically                  | U601         |                 |
| Finding the area of sectors                              | U373         |                 |
| Factorising quadratic expressions of the form $x^2+bx+c$ | U178         |                 |
| Using standard form with positive indices                | U330         |                 |
| Writing and simplifying ratios                           | U687         |                 |
| Multiplying and dividing numbers in standard form        | U264         |                 |
| Expanding single brackets                                | U179         |                 |
| Using equivalent ratios to find unknown amounts          | U753         |                 |
| Interpreting box plots                                   | U837         |                 |
| Comparing data: box plots&cumulative frequency graphs    | U507         |                 |
| Venn diagrams                                            | U476         |                 |
| Conditional probabilities from Venn diagrams             | U699         |                 |
| Solving double inequalities                              | U145         |                 |
| Rotation                                                 | U696         |                 |
| Translation                                              | U196         |                 |
| Reflection                                               | U799         |                 |
| Converting recurring decimals to fractions               | U689         |                 |
| Adding and subtracting fractions                         | U736         |                 |
| Using the exact values of trigonometric ratios           | U319         |                 |
| Finding composite functions,                             | U448         |                 |
| Finding inverse functions                                | U996         |                 |
| Angles in segments and cyclic quadrilaterals             | U251         |                 |
| Sharing amounts in a given ratio                         | U577         |                 |
| Multiplying and dividing surds                           | U633         |                 |
| Rationalising denominators containing a single term      | U707         |                 |
| Equations of parallel and perpendicular lines            | U898         |                 |
| Position-to-term rules for geometric sequences           | U958         |                 |
| Simplifying surds                                        | U338         |                 |
| Converting mixed numbers and improper fractions          | U692         |                 |
| Indices of the form $1/a$                                | U985         |                 |
| Index rules with positive indices                        | U235         |                 |
| Solving quadratic inequalities                           | U133         |                 |
| Geometric proofs with vectors                            | U560         |                 |
| Graphs of trigonometric functions                        | U450         |                 |