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| **Core Knowledge Map** | | | |
| Subject: Maths | Year: 9 Higher | | Term: Autumn 1 |
| What are we learning? | | | |
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| How will I be assessed? | | | |
| Topic Test at the end of the unit. | | | |
| Big questions: | | | |
| Write an expression for the number that is five less than x  Expand and simplify 3(5x+2) – 4(2x–3)  Expand and simplify (x+3)(x-7)  Fully factorise:   * 1. 3x+15   2. 4x–10   3. 2x2+12x   4. x2+8x+15   Simplify/find the value of:   * 1. a3 x a6   2. a10 ÷ a4   3. (3a4)2   4. 230   5. 4-2   6. 161/2   7. 9-3/2 | | | |
| How does this build on previous learning? | | How will this link to my future learning? | |
| Algebraic notation  Negative numbers  Multiplying and dividing | | Solving equations  Quadratic expressions/equations  Solving geometric problems | |
| Core knowledge: | | Key vocabulary: | |
| An expression is a combination of numbers, variables and functions with operations.  An equation is a statement where two mathematical expressions are equal.  An identity is an equation that is true no matter what values are chosen.  A formula is a mathematical relationship or rule expressed in symbols.  Index laws | | Linear  Quadratic  Index  Indices  Factorise  Variable  Coefficient  Term  Expression  Simplify  Expand | |
| Need more help? Use the Sparx Independent Learning Codes above. | | | |
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