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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 xExpand 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
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| How does this build on previous learning? | How will this link to my future learning? |
| Algebraic notationNegative numbersMultiplying and dividing | Solving equationsQuadratic expressions/equationsSolving 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 | LinearQuadraticIndexIndicesFactoriseVariableCoefficientTermExpressionSimplifyExpand  |
| Need more help? Use the Sparx Independent Learning Codes above. |
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