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| Subject: Mathematics Year 10F Curriculum Map 2024-2025 |
| Terms | **Topics covered** and **core knowledge and skills** | Links to careers | Links to the Knowledge organiser and other additional resources |
| Half term 1 | **Unit 1: NP1-3 Essentials**NP1

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| Writing integers in words |
| Be able to place integers and decimals on a number line |
| Ordering integers and decimals |
| Ordering negative values |
| Multiplying and dividing by powers of 10 |
| Rounding to nearest 10, 100, 1000 |
| Rounding to decimal places |
| Rounding to significant figures |

NP2

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| Addition with integers and decimals |
| Subtraction with integers and decimals |
| Understand zero pairs |

NP3

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| Multiplying integers and decimals with grids |
| Multiples and common multiples |
| Division of integers and decimals |
| Factors and common factors |

**Unit 2: NP4-7 Essentials**NP4

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| Writing and evaluating powers |
| Square roots and cube roots |
| Index laws |
| Prime numbers |
| Prime factors |

NP5

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| Order of operations with four operations, exponents and brackets to break the order |

NP6

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| Four operations with directed numbers |
| Powers of negative numbers |

NP7

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| Identifying fractions |
| Identifying fractions greater than 1 |
| Converting between mixed and improper fractions |
| Simplifying fractions |
| Adding and subtracting fractions |
| Finding a fraction given the whole, finding a whole given a fraction. |
| multiplying and dividing fractions, fraction of an amount (incl. fractions of fractions) with link to multiplying; increasing and decreasing by a fraction by multiplying |

 | Approximation: <https://www.youtube.com/watch?v=cABMOLgTkYM>Decimals:<https://www.youtube.com/watch?v=X0Gl72XKiyI>Fractions:<https://www.youtube.com/watch?v=3pccvFEWO0k>Multiples:<https://www.youtube.com/watch?v=xyOCgnixiaE>Whole Numbers:<https://www.youtube.com/watch?v=iLoKfB9hFLA> | This link would take you to the KO on our website<https://teachers.thenational.academy/subjects/maths/key-stages/key-stage-4><https://www.bbc.co.uk/bitesize/subjects/z38pycw><https://vle.mathswatch.co.uk/vle/><https://corbettmaths.com/contents/> |
| Half term 2 | **Continue Unit 2: NP4-7 Essentials****Unit 3: A1-5 Essentials**A1

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| Simplifying expressions and like terms |
| Basic substitution |
| Solving 1 and 2 step equations |

A2

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| Adding and subtracting expressions |
| Multiplying and dividing expressions |
| Writing expressions |

A3

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| Expand and a single bracket |
| Factorise a single bracket |

A4

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| Equality and equations |
| Solving 1 and 2 step equations |
| Solving equations with an unknown on both sides |
| Solving equations containing brackets |
| Forming equations |

A5

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| Using substitution to evaluate expressions |
| Using formulae |
| Rearranging formulae to change the subject |

 | Algebra: <https://www.youtube.com/watch?v=c4xwvFtsrMU> |  |