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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   |  | | --- | | 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   |  | | --- | | Addition with integers and decimals | | Subtraction with integers and decimals | | Understand zero pairs |   NP3   |  | | --- | | 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   |  | | --- | | Writing and evaluating powers | | Square roots and cube roots | | Index laws | | Prime numbers | | Prime factors |   NP5   |  | | --- | | Order of operations with four operations, exponents and brackets to break the order |   NP6   |  | | --- | | Four operations with directed numbers | | Powers of negative numbers |   NP7   |  | | --- | | 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   |  | | --- | | Simplifying expressions and like terms | | Basic substitution | | Solving 1 and 2 step equations |   A2   |  | | --- | | Adding and subtracting expressions | | Multiplying and dividing expressions | | Writing expressions |   A3   |  | | --- | | Expand and a single bracket | | Factorise a single bracket |   A4   |  | | --- | | Equality and equations | | Solving 1 and 2 step equations | | Solving equations with an unknown on both sides | | Solving equations containing brackets | | Forming equations |   A5   |  | | --- | | Using substitution to evaluate expressions | | Using formulae | | Rearranging formulae to change the subject | | Algebra: <https://www.youtube.com/watch?v=c4xwvFtsrMU> |  |