|  |  |  |  |
| --- | --- | --- | --- |
| Subject: Mathematics Year 8 Curriculum Map 2022-2023 | | | |
| Terms | **Topics covered** and **core knowledge and skills** | Links to careers | Links to the Knowledge organiser and other additional resources |
| Half term 1 | Sequences:  Understand linear sequences as patterns withing number grid columns  Be able to use and form position-to-term rules for linear sequences  Understand the features of linear and non-linear sequences  Be able to reason with a variety of sequences and representations  Forming and Solving Equations:  Understand equality in algebraic relationships  Be able to solve simple linear equations  Understand algebraic relationships embedded within various contexts  Be able to form and solve linear equations with unknowns on both sides  Forming and Solving Inequalities:  Understand different representations of inequalities  Be able to test and solve linear inequalities  Understand inequalities as representations of numerical relationships from a range of contexts  Be able describe solve inequalities including with unknowns on both sides | Sequences:  <https://www.youtube.com/watch?v=7Vf6BJwdy_0>  Forming and Solving Equations:  <https://www.youtube.com/watch?v=BzKMckyLYzk>  Forming and Solving Inequalities:  <https://www.youtube.com/watch?v=5sOw5og5sgc>  Linear Graphs:  <https://www.youtube.com/watch?v=JcEHR6O5E6Q>  Accuracy and Estimation:  https://www.youtube.com/watch?v=meOjLJF9F7U | This link would take you to the KO on our website  <https://classroom.thenational.academy/subjects-by-key-stage/key-stage-3/subjects/maths>  <https://www.bbc.co.uk/bitesize/subjects/zqhs34j>  <https://vle.mathswatch.co.uk/vle/>  <https://maritime.rivoagency.com/admin/wp-content/uploads/sites/20/2022/10/U01-Sequences-KO.pdf>  <https://maritime.rivoagency.com/admin/wp-content/uploads/sites/20/2022/10/U02-Forming-and-solving-equations-KO.pdf>  <https://maritime.rivoagency.com/admin/wp-content/uploads/sites/20/2022/10/U03-Inequalities-KO.pdf> |
| Half term 2 | Linear Graphs:  Understand coordinates and how related sets of coordinates form a line  Be able to represent inequalities with one variable on the Cartesian plane  Understand a linear relationship can be recognised from a constant rate of change in the coordinates  Be able to identify the gradient of a line from its graph and from a set of coordinates  Understand a linear relationship can be described using algebra in the form y = mx + c  Be able to identify the equation of a line and draw a line from its equation  Experience moving between three representations of a linear relationship: coordinates, graphs and equations  Accuracy and Estimation:  Understand rounding is a method of approximation  Be able round to decimal places and ‘to the nearest’ Understand how to identify significant figures  Be able round to a given number of significant figures  Be able to estimate calculations based on significant figures | Linear Graphs:  <https://www.youtube.com/watch?v=JcEHR6O5E6Q>  Accuracy and Estimation:  https://www.youtube.com/watch?v=meOjLJF9F7U | <https://maritime.rivoagency.com/admin/wp-content/uploads/sites/20/2022/10/U04-Linear-Graphs-KO.pdf>  <https://maritime.rivoagency.com/admin/wp-content/uploads/sites/20/2022/10/U05-Accuracy-Estimation-KO.pdf> |