|  |
| --- |
| 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 columnsBe able to use and form position-to-term rules for linear sequencesUnderstand the features of linear and non-linear sequencesBe able to reason with a variety of sequences and representationsForming and Solving Equations:Understand equality in algebraic relationshipsBe able to solve simple linear equationsUnderstand algebraic relationships embedded within various contexts Be able to form and solve linear equations with unknowns on both sidesForming and Solving Inequalities:Understand different representations of inequalitiesBe able to test and solve linear inequalitiesUnderstand inequalities as representations of numerical relationships from a range of contextsBe 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 lineBe able to represent inequalities with one variable on the Cartesian planeUnderstand a linear relationship can be recognised from a constant rate of change in the coordinatesBe able to identify the gradient of a line from its graph and from a set of coordinatesUnderstand a linear relationship can be described using algebra in the form y = mx + cBe able to identify the equation of a line and draw a line from its equationExperience moving between three representations of a linear relationship: coordinates, graphs and equationsAccuracy and Estimation:Understand rounding is a method of approximationBe able round to decimal places and ‘to the nearest’ Understand how to identify significant figuresBe able round to a given number of significant figuresBe 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> |