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| **Core Knowledge Map** | | | |
| Subject: **Mathematics** | Year: 10 | | Term: Autumn 2 |
| What are we learning? | | | |
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| How will I be assessed | | | |
| Retrieval Tasks, Exit tickets, end of half-term test. | | | |
| Big questions: | | | |
| Can you….?   * Represent -3 < n ≤ 2 on a number line? * List all the integer values for n for the inequality -3 < n ≤ 2 * Solve 3y + 7 < y – 5 * Form an equation and solve: If a café sells 3 soups and 2 sandwiches for £8.10 and 5 soups and 1 sandwich for £9.30, how much will 2 soups and 3 sandwiches cost? | | | |
| How does this build on previous learning? | | How will this link to my future learning? | |
| * Yr9 Simultaneous equations * Substituting and solving linear equations | | * GCSE synoptic and multi-step problem solving questions – there are often hidden simultaneous equations relating to sequences or shape questions. * Year 11 solving simultaneous equations by substituting where one equation is linear and one is non-linear. * Solving equations, inequations and simultaneous equations graphically. | |
| Core knowledge: | | Key vocabulary: | |
| * A closed circle on a number line means < or > * An open circle on a number line means ≤ or ≥ * When solving a pair of equations simultaneously you are finding the values of the two variables (x,y) that satisfy BOTH the equations. * When solving an inequality, if you divide or multiply through by a negative value the direction of the inequality sign changes. | | Inequality/Inequation  Solution  Simultaneous  Elimination  Substitution | |
| Need more help? Use the Sparx Independent Learning Codes above | | | |