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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?
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| 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.
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| 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/InequationSolutionSimultaneousEliminationSubstitution |
| Need more help? Use the Sparx Independent Learning Codes above |