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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….?   * Write down the four bits of information you need to describe a rotation * Tell which of these vectors are parallel? 2**a** + 3**b,** -4**a** + 6**b,** (6**a** + 9**b**) * Sketch these graphs on a coordinate graph? y = x , y = -x, x = -5, y = 8 * Write down the equations of the lines that are the coordinate axes? * Describe the process for proving that a given line segment is a straight line using vectors? | | | |
| How does this build on previous learning? | | How will this link to my future learning? | |
| * Reflections. (Y8) * Link to gradient of straight lines. (Y9) * Equations of straight line graphs.(Y9) | | * GCSE synoptic and multi-step problem solving questions * L2 Further Maths an AS Leel Further Maths explores vectors and matrices in more detail. * Year 11 – transformation of graphs * A Level – we add stretches to the family of transformations | |
| Core knowledge: | | Key vocabulary: | |
| * Rotation, reflection, translation and enlargement are the four types of transformation studied at GCSE. * A vector describes a movement in a 2D plane. * Vectors are parallel if their vector components are a multiple of each other. | | Transformation  Rotation  Reflection  Translation  Enlargement  Vector  Scale factor | |
| Need more help? Use the Sparx Independent Learning Codes above | | | |