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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,** $\frac{1}{3}$(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?
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| 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
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| 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.
 | TransformationRotationReflectionTranslationEnlargementVectorScale factor |
| Need more help? Use the Sparx Independent Learning Codes above |