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**Knowledge Rich Curriculum Plan**

Year 11 Higher+ Geometry 1



| **Lesson/Learning Sequence** | **Intended Knowledge:**  *Students will know that…* | **Tiered Vocabulary** | **Prior Knowledge:**  *In order to know this…* | **Assessment** |
| --- | --- | --- | --- | --- |
| **To learn how to solve geometrical problems involving vectors** | * Students will know how to describe a movement between two points on a shape using vectors * Students will know that any vector going in the same direction and the same magnitude is equal * Students will know how to find vectors where lines are divided into two halves by a midpoint * Students will know how to find vectors where lines are divided into a ratio |  | * Students need to know how to write ratio as a fraction |  |
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| **To learn how to form vector proofs** | * Students will know how to prove two vectors are parallel. Students will know that parallel vectors are multiples of each other. * Students will know how to prove two vectors are on a straight line. Students will know that for vectors to fall on a straight line they must be parallel and share a point in common. | **Parallel –** parallel lines are two lines that are side by side and have the same distance continuously between them  **Multiple –** a number that is in a given numbers multiplication tables | * Students should already know how to find vectors describing a movement from one point on a shape to another |  |
| **To learn how to solve more complex problems involving vectors** | * Students will know how to solve more complex problems involving vectors, including those where they have to work out scalars |  | * Students should already know how to find vectors describing a movement from one point on a shape to another |  |