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| Year 10/11 | Strand: Shape | Element: Transformations | Teacher: ZAF |

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| **Title** | | Transformations | | | |
| **Hours** | | 1 to 2 lessons | | | |
| **Aims** | | See the learning journey statements at the bottom of this form | | | |
| **Pedagogy** | | * Problem Solving/ MAP Concept lesson/ Assessment/ Standards Unit/ CAME/ Investigation/**GCSE revision** * (Underline/highlight the pedagogy) | | | |
| **Activity**  **(details)** | | Starter - Build up a mindmap of everything the pupils remember about transformations. Get them to copy this onto a revision card or into their books before trying the rest of the lesson.  Main - Transformations GCSE questions, these have been taken from Foundation and Higher papers so you can choose which to print depending on the spread of your class. Do make sure that you include some that are a little bit harder than you think they can handle, they might surprise you! These need to be cut up and given to pupils to sort into piles of questions that they can and can’t do. This will give them a chance to assess their grades and link back to the learning journey.  Plenary – get them to grade themselves using their LJ and to transfer this grade onto their assessment card. You might use this LJ from a previous lesson already glued into their books. If this is the case try to get pupils to annotate their LJ with dates and using a different coloured pen. | | | |
| **YEAR 10/11** | | **These statements come from the learning journey** | | | |
| **A** | | * I can solve problems using addition & subtraction of vectors * I can solve more complex geometrical problems using vectors | | | |
| **B** | | * I can enlarge a shape by *any* scale factors. * I can combine transformations. I can reflect a shape in a line when the equation of the line is given to me. | | | |
| **C** | | * Enlarge a 2-D shape about any point * I can translate a shape by a positive vector. * Rotate a 2-D shape about any point * Enlarge a 2-D shape by a fractional scale factor * Reflect a 2-D shape in the line y = x or y = -x | | | |
| **D** | | * I can enlarge a shape by a positive scale factor * I can reflect a shape in a horizontal or vertical mirror line. * Rotate a 2-D shape about the origin | | | |
| **E** | | * Draw lines of symmetry on more complex 2-D shapes * Reflect a 2-D shape in the x-axis or the y-axis | | | |
| **F** | | * Find the order of rotational symmetry for basic 2-D shapes | | | |
| **G** | | * Draw lines of symmetry on basic 2-D shapes | | | |
| Reflections/comments – Please include details of: | | | | | |
| Date | Teacher | | Class | How you adapted the lesson | www/ebi |
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