**Student Assessment Sheet – Transformations**

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| **Objective** | **Before teaching** | **Date of lesson/s** | **After teaching** |
| **Limited** | **Developing** | **Secure** | **Extending** | **Limited** | **Developing** | **Secure** | **Extending** |
| Reflect shapes in the axes of a graph. |  |  |  |  |  |  |  |  |  |
| Reflect shapes in lines such as x = 2 and y = -1. |  |  |  |  |  |  |  |  |  |
| Reflect shapes in the lines y = x and y = -x. |  |  |  |  |  |  |  |  |  |
| Rotate shapes about the origin. |  |  |  |  |  |  |  |  |  |
| Rotate shapes about any point. |  |  |  |  |  |  |  |  |  |
| Translate a shape by a vector. |  |  |  |  |  |  |  |  |  |
| Enlarge a shape by a positive scale factor. |  |  |  |  |  |  |  |  |  |
| Enlarge a shape by a positive integer scale factor from a given centre. |  |  |  |  |  |  |  |  |  |
| Enlarge a shape by a positive fractional scale factor. |  |  |  |  |  |  |  |  |  |
| Enlarge a shape by a negative scale factor. |  |  |  |  |  |  |  |  |  |
| Describe the changes and invariance achieved by combinations of rotations, reflections and transformations. |  |  |  |  |  |  |  |  |  |
| Add, subtract and multiply vectors. |  |  |  |  |  |  |  |  |  |
| Understand the relationship between parallel vectors. |  |  |  |  |  |  |  |  |  |