## WHAT DO WE ALREADY RMOUU

Stage 8 - Visualising and Constructing K $K$ Y ORDS

- Find a multiplier in a situation involving proportion.
- Plot the graph of a linear function.
- Understand the meaning of a compound unit.
- Convert between units of length, capacity, mass and time

- Measure line segments \& angles in geometric figures. Solve geometric problems
- Interpreting maps, scale drawings \& bearings
- Identify \& construct similar shapes, use enlargement; scale factors
- Similarity-"having characteristics in common," 1610s from French similaire
- Enlargement-Meaning "act of increasing in size" is from 1560s
- Scaling
- Scale factor
- Centre of enlargement
- Object
- Image
- Scale drawing
- Bearing
- Interpret plans and elevations of 3D shapes
- Plan

| Visualising and Constructing - Targets | Elevation <br> Tofore <br> Topic | After <br> Topic | Teacher <br> Mark |
| :--- | :--- | :--- | :--- |
| Use scale factor to do an enlargement with a positive integer scale factor using a centre of enlargement |  |  |  |
| Understand the effect that enlargement has on the lengths of a shape |  |  |  |
| Be able to enlarge a shape when given a negative integer or fractional scale factor |  |  |  |
| Find the centre of enlargement and the scale factor |  |  |  |
| Be able to tessellate different quadrilaterals and simple polygons |  |  |  |
| Be able to find the image of an object after 2 consecutive transformations (can be a mixture of reflection, <br> rotation or translation) |  |  |  |
| Be able to describe one or more transformations of an object |  |  |  |
| Use and construct scale diagrams, including the use of maps and bearings |  |  |  |
| Interpret plans and elevations |  |  |  |
| Solve geometrical problems using bearings |  |  |  |

