**GCSE UNIT SUMMARY: UNIT 19: Congruence, similarity and vectors**

19a) **Similarity and congruence in 2D**

| Unit Description | Taught | Revision Priority |
|---|---|---|
| Use the basic congruence criteria for triangles (SSS, SAS, ASA and RHS); | | |
| Solve angle problems involving congruence; | | |
| Identify shapes which are similar; including all circles or all regular polygons with equal number of sides; | | |
| Understand similarity of triangles and of other plane shapes, use this to make geometric inferences, and solve angle problems using similarity; | | |
| Identify the scale factor of an enlargement of a shape as the ratio of the lengths of two corresponding sides; | | |
| Understand the effect of enlargement on perimeter of shapes; | | |
| Solve problems to find missing lengths in similar shapes; | | |
| Know that scale diagrams, including bearings and maps are 'similar' to the real-life examples. | | |

19b) **Vectors**

| Unit Description | Taught | Revision Priority |
|---|---|---|
| Understand and use column notation in relation to vectors; | | |
| Be able to represent information graphically given column vectors; | | |
| Identify two column vectors which are parallel; | | |
| Calculate using column vectors, and represent graphically, the sum of two vectors, the difference of two vectors and a scalar multiple of a vector. | | |