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| **F Unit 11: Congruence, similarity and vectors** | **Year 11 Road Map** |
| In this unit you will learn about Geometry & measures. The aims are as follows:**LG1**: Knowledge**LG2**: Application**LG3**: SkillsAssessment Grades |
|  | **Learning Goals/Outcomes/Content** | Video clips | R A G |  |  |
| 11a Similarity and Congruence in 2d |
| 1 | Use the basic congruence criteria for triangles (SSS, SAS, ASA and RHS); | 166 |  |  |  |
| 2 | Solve angle problems involving congruence; | 166 |  |  |  |
| 3 | Identify shapes which are similar; including all circles or all regular polygons with equal number of sides; | 144 |  |  |  |
| 4 | Understand similarity of triangles and of other plane shapes, use this to make geometric inferences, and solve angle problems using similarity; | 144 |  |  |  |
| 5 | Identify the scale factor of an enlargement of a shape as the ratio of the lengths of two corresponding sides;  | 148 |  |  |  |
| 6 | Understand the effect of enlargement on perimeter of shapes;  | 148 |  |  |  |
| 7 | Solve problems to find missing lengths in similar shapes; | 144 |  |  |  |
| 8 | Know that scale diagrams, including bearings and maps are ‘similar’ to the real-life examples. |  |  |  |  |
| 11b Vectors |
| 9 | Understand and use column notation in relation to vectors;  | 174 |  |  |  |
| 10 | Be able to represent information graphically given column vectors; | 174 |  |  |  |
| 11 | Identify two column vectors which are parallel;  | 174 |  |  |  |
| 12 | Calculate using column vectors, and represent graphically, the sum of two vectors, the difference of two vectors and a scalar multiple of a vector.  | 174 |  |  |  |
| Student’s comments and or questions |