|  |  |
| --- | --- |
| **Year 2 pure unit 8: Parametric equations** | **Road Map** |
| In this unit you will learn about pure maths. The aims are as follows:**LG1**: Knowledge**LG2**: Application**LG3**: Skills | Assessment Grades |  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
| **Themes** | **Learning Goals/Outcomes/Content** |  |  |  |
| **8a. Definition and converting between parametric and Cartesian forms** | understand the difference between the Cartesian and parametric system of expressing coordinates; |  |  |  |
| be able to convert between parametric and Cartesian forms, using appropriate trigonometric identities. |  |  |  |
| **8b. Curve sketching and modelling**  | be able to plot and sketch curves given in parametric form; |  |  |  |
| be able to solve coordinate geometry problems using parametric equations |  |  |  |
| recognise some standard curves in parametric form and how they can be used for modelling. |  |  |  |

**Links:**

LG1: You will learn how to use the parametric equations of curves and conversion between Cartesian and parametric forms.

LG2: You will be able to apply your knowledge of parametric equations to modelling in a variety of contexts.

LG3: You will be able to solve a variety of routine and non-routine problems, by combining several Mathematical skill sets. For example, using trigonometric identities to convert between parametric and Cartesian forms or finding parametric equations for a motion.