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| **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 |  |  | | | |
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| **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.