**Unit Plan Task**

Here is a summary of what you need to do for the Unit Plan Task. More information about criteria and marking is on the task sheet.

* Introduction/Overview of the Unit, incorporating the content description
* Pre-test or Assessment Activity that Assesses Prior Knowledge
* Learning Intentions
* Unit Schedule/Calendar
* Assessment and Evaluation; description of assessment and evaluation of students throughout the unit.
* Technology requirements
* Additional Resources and/or Material Necessary
* Summative task for the topic that meets the assessment criteria and requirements outlined in the SACE Board Subject Outline.

Your unit should cover a topic from a SACE Stage 1 or 2 subject outline. You will need to choose a topic for your unit.

Quadratics and other Polynomials is one example of a topic. It contains subtopic 2.1 Quadratic Relationships, and subtopic 2.2 Cubic and Quartic Polynomials. From the example school course outline below, you can see that a topic such as this takes about 5 weeks to complete.

Note: You do NOT need to make a course outline

**Stage 1 Mathematics**

**Semester One Course Outline and Assessment tasks**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Term 1** | | | | | |
| **Week** | **Topics** | | **Subtopic** | **Assessment** | **Weight** |
| 1 | Functions and Graphs | Linear Relationships | 1.1 Lines and Linear Relationships |  |  |
| 2 | Simultaneous equations | 1.1 Lines and Linear Relationships |  |  |
| 3 | Inverse Proportion | 1.2 Inverse Proportion |  |  |
| 4 | Relations | 1.3 Relations |  |  |
| 5 | Functions | 1.4 Functions | Investigation  (max 8 pages min font 10) | 25% |
| 6 | Quadratics and other Polynomials | Quadratics | 2.1 Quadratic Relationships |  |  |
| 7 | Graphing Quadratics | 2.1 Quadratic Relationships |  |  |
| 8 | Discriminant | 2.1 Quadratic Relationships |  |  |
| 9 | Quadratics in context | 2.1 Quadratic Relationships |  |  |
| 10 | Graphing Cubic and Quartic Functions | 2.2 Cubic and quartic polynomials |  |  |
| 11 | Revision |  | SAT A(Non-Calc/Formulae Provided)  B(Calculator/A4 Notes Page) | 25% |
| **Term 2** | | | | | |
| 1 | Trigonometry | Introduction to Radian  Unit Circle | 3.2 Circular measure and radian measure |  |  |
| 2 | Graphing Trigonometric Functions | 3.3 Graphing trigonometric functions |  |  |
| 3 | Solving Trigonometric Equations | 3.3 Graphing trigonometric functions |  |  |
| 4 | Modelling with Trigonometric Functions | 3.3 Graphing trigonometric functions |  |  |
| 5 | Revision |  | SAT Calculator/A4 Notes Page | 25% |
| 6 | Exam | Exam Revision |  |  |  |
| 7 | Exam Revision |  |  |  |
| 8 | **Semester One Exam**  Calculator and one double sided A4 Note Page | | | 25% |

Here is one way that you could format a unit schedule:

**Unit Schedule - Sample**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Week |  | Topics | Subject Outline Reference | Lessons |
| 6 | Quadratics and other Polynomials | Quadratics | 2.1 Quadratic Relationships | Lesson 1:  Quadratic relationships in everyday life  Lesson 2:  … |
| 7 | Graphing Quadratics | 2.1 Quadratic Relationships |  |
| 8 | Discriminant | 2.1 Quadratic Relationships |  |
| 9 | Quadratics in context | 2.1 Quadratic Relationships |  |
| 10 | Graphing Cubic and Quartic Functions | 2.2 Cubic and quartic polynomials |  |
| 11 | Revision |  |  |