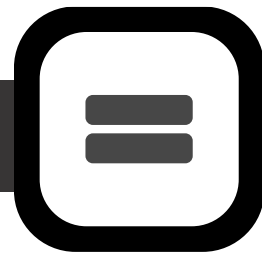# LEARNING JOURNEY | MATHS =

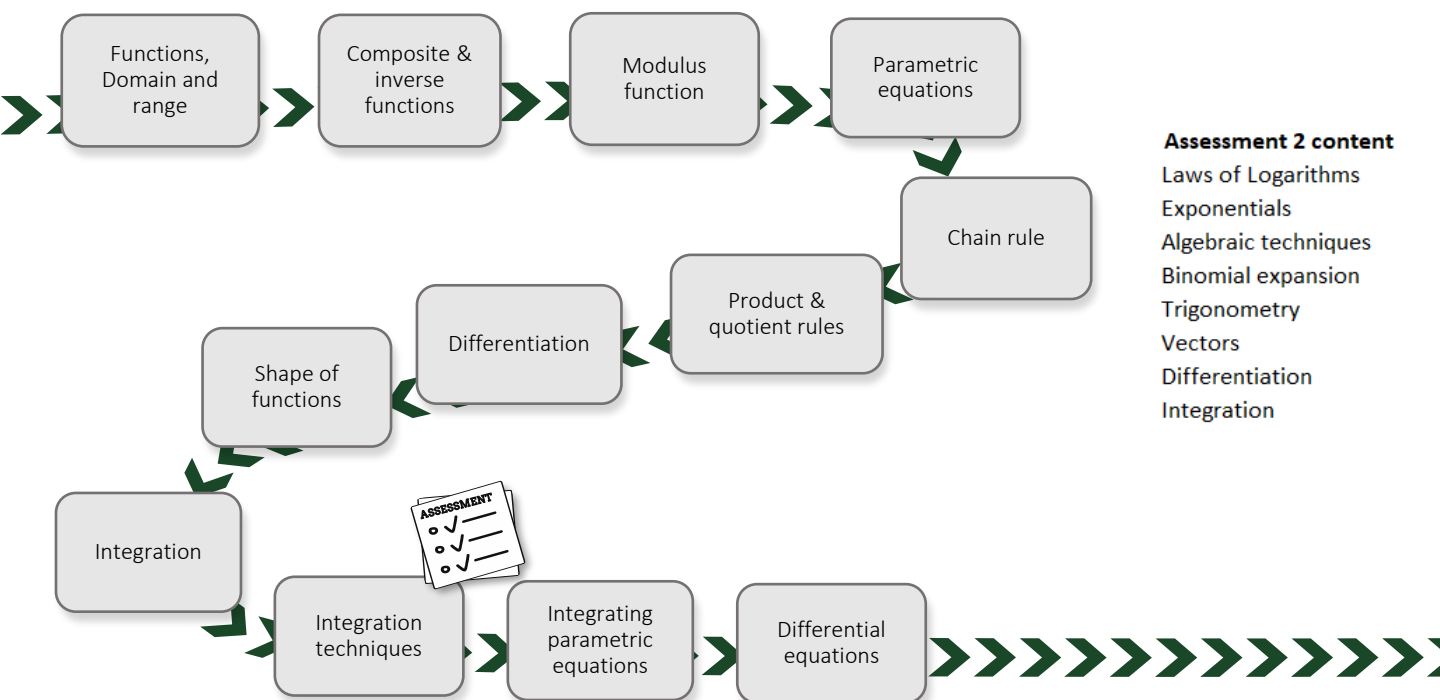## Year 13 A level Maths
Pure Mathematics – Teacher 2

Mathematicians have underlying rules and principles that guide us through all levels of work. In this term you will be reviewing and extending upon concepts that were present in topics you've learnt so far. You will begin to understand the differences between doing mathematics and behaving mathematically.

The knowledge you are learning is essential for all future work. A level mathematics is structured such that concepts are built upon with minor changes to introduce the new concept. It is essential we have a firm understanding of the fundamentals before exploring the more challenging work in year 13.

```
Functions,      Composite &     Modulus        Parametric
Domain and  →   inverse     →   function   →   equations
range           functions
                                                   ↓
                                               Chain rule
                                                   ↑
Shape of    ←   Differentiation ←   Product &
functions                           quotient rules
   ↓
Integration →   Integration →   Integrating  →   Differential  →
                techniques      parametric       equations
                                equations
```

Assessment 2 content
Laws of Logarithms
Exponentials
Algebraic techniques
Binomial expansion
Trigonometry
Vectors
Differentiation
Integration

Dr Frost homework tasks are set almost weekly.
Each teacher will set and review a common homework task.
Weekly study supports are on offer. Ask your teacher for details.
Ensure your subject folder is kept organised.

TUDOR HABITS AND VALUES: You will begin to understand what it is to be a mathematician at KS5; to be inquisitive, curious, kind yet critical, and you will continue to build metacognitive skills through your questioning of concepts and ideas.

VOCABULARY: Modulus, parametric, Domain, Concave, Convex