INTEGRATED MATH 2 - KEY OBJECTIVES
FUNCTIONS

WHAT:

Function Basics:

- Determine whether a relation is a function by looking at a graph or set of data.
- Understand and identify the domain and range of a function.
- Understand function notation and be able to evaluate functions.

$f(x) = 2x + 5$

These concepts are primarily covered in sections 14A, 14B, and 14C of the MYP5+ textbook.

Composition of Functions:

$f(g(x)) = ??$

- Find the composition of two functions.

These concepts are primarily covered in section 14D of the MYP5+ textbook.

Transformations of Functions:

- Understand and represent transformations of functions, both algebraically and graphically.

These concepts are primarily covered in sections 14E of the MYP5+ textbook.

Piecewise Functions:

- Graph piecewise functions.
- Determine the domain and range of piecewise functions.
- Given a graph, write the corresponding piecewise function.
- Apply a piecewise function to a real-world situation.

These concepts are primarily covered in the notes and handouts from class.

Extension – Inverse Functions:

- Find an inverse function algebraically and graphically.
- Determine if two functions are inverses, both algebraically and graphically.

These concepts are primarily covered in section 14F of the MYP5+ textbook.

WHY:

$c = ??$

$t = ??$

Can math really help us to confront unknown situations?

What relationships can be modeled by two variable quantities?

Why is it important to be able to express an "opposite" relationship?

What situations involve "rules" that change, and how can we model these?