

Deira International School

Shah Ali, Kirsty Fairman

IB DP IB Mathematics Analysis and approaches SL 2022 (IB1)



Summary

SL Chapter 2 - Understanding Functions

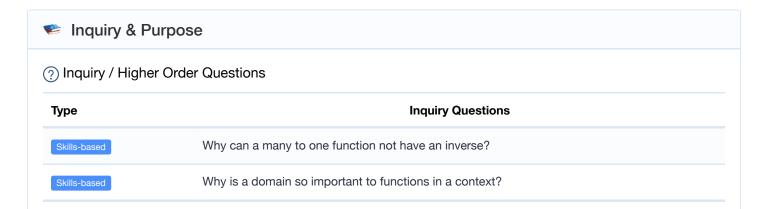
Start date Duration Subject Year Mathematics: analysis and IB1 Week 2, September 3 weeks

approaches

Course Part

Description

In this unit you will explore the manipulation and use of functions



Curriculum

Aims

Develop an understanding of the concepts, principles and nature of mathematics

Objectives

Knowledge and understanding: Recall, select and use their knowledge of mathematical facts, concepts and techniques in a variety of familiar and unfamiliar contexts.

Syllabus Content

Topic 2: Functions

SL Content

SL 2.2

Concept of a function, domain, range and graph. Function notation, for example f(x), v(t), C(n)

The concept of a function as a mathematical model.



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Informal concept that an inverse function reverses or undoes the effect of a function.

Inverse function as a reflection in the line y = x, and the notation $f^{-1}(x)$

SL 2.3

The graph of a function; its equation y = f(x).

Creating a sketch from information given or a context, including transferring a graph from screen to paper.

Using technology to graph functions including their sums and differences.

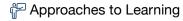
SL 2.5

Composite functions.

Identity function. Finding the inverse function $f^{-1}(x)$



ATL Skills





Thinking

- In this unit, we will

set students a task which required higher-order thinking skills (such as analysis or evaluation)

build on a specific prior task

include a reflection activity



Developing IB Learners



Inquirers

☆ Learner Profile



Knowledgeable



Thinkers



Reflective