

AIS Maths Curriculum Overview

Pre-Kindergarten

By the end of Pre-Kindergarten students will:

Data Handling

- discuss and identify outcomes that will happen, won't happen and might happen.
- sort, label and classify real objects into *sets* by attributes.
- as a member of a group create and begin to understand the purpose of a graph.

Measurement

- identify, compare and describe attributes of real objects and situations: longer, shorter, heavier, empty, full, hotter, colder.
- label and compare objects using non standard units of measurement.
- identify, compare and sequence events in their daily routine: before, after, bedtime, story time, today, tomorrow.
- begin to understand lengths of time-day, week, month, year.

Shape and Space

- sort, describe and compare simple 2-D and 3-D *shapes* according to attributes such as size or form.
- explore and describe the paths, regions and boundaries of their immediate environment (inside, outside, above, below) and their position (next to, behind, in front of, up, down).

Pattern and Function

- find and describe simple *patterns*.
- create simple *patterns* using real objects.
- begin to create more complex patterns eg. AAB, ABBA.
- begin to recognize patterns within numbers e.g. 12, 21.

Number

- read, write and *model* numbers to 10.
- begin to read write and model numbers to 20.
- count, compare and order numbers to 20.
- begin to use the *base 10 system* to 100.
- begin to *estimate* quantities to 10.
- use *ordinal numbers* to describe the position of things in a sequence.
- *model* number relationships to 10.
- use the language of mathematics: more, less, numbers, how many all together?
- use *1-1 correspondence*.
- explore the *conservation* of number through the use of *manipulatives*.
- begin to select and explain an appropriate method for solving a problem.