

Numicon at ISD CPD Workshop Series April 2018

David Lyttle

Our Numicon Website

<https://in.isdedu.de/index.php/numicon>

Discover, Inquire, Construct... Experience! *Experiential Learning with Numicon in the Lower Elementary: K to 2*

Date: Saturday, 28 April 2018
Time: 09:00 - 16:00
Location: Elementary School Conference Room 1.01
International School of Düsseldorf, Niederrheinstr, 323, 40489, Germany
Cost: €150

Workshop Schedule and Outline

- 09:00 - 09:45** **Session 1: Introduction What is Numicon?**
Reviewing the Core Materials, Support Materials, Teacher Handbooks
Reviewing the school's involvement with Numicon (Intervention, Classwork, Enrichment?)
Explore Activities: Fill the Board, Making a Staircase
Warm Up Activities: Number Bonds, Feely Bag (What's my shape?)
- 09:45 - 10:30** **Session 2: Theory of Play and Inquiry**
Defining Play & Guided Inquiry -> Complementary Goals
Reviewing Seminal Works
Theory Practically Applied: The underlying goal of Numicon and the PYP Aligned
Numicon PYP Mapping Project : How this works for Lower Years
- 10:30 - 10:45** **Morning Tea Break**
Coffee / Tea / Snacks provided by ISD
- 10:45 - 11:15** **Session 3: Hierarchy of Concepts for EYFS**
Reviewing the Progression of Learning from 1 to 1 Counting to Part Whole
The Language of Mathematics: A reminder when teaching to be careful about vocabulary a teacher uses.

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11:15 - 12:00

Session 4: Play & Experience Based Lessons

Open Play: Good Targeted Questions (Spanner in Works)

'Biting the Tongue' (Constructivism) Identifying & using learning opportunities that unfold

Activity: Make your own Numicon Shelters

Video: Prep Building Numicon Shelters (Balance, Equivalency, 1 to 1, Weight, Counting)

Social & developmental opportunities with play. (Collaboration, problem solving, Discussion)

12:00 - 12:45

Session 5: Inquiry & Exploration Lessons Part 1 - COUNTING

Activity Exploring Odd and Even

Activity Exploring One to One Correspondence

Exploring Numicon Number Tracks and Number Lines

Relating shapes to numbers to Real World applications

Using the Numicon IWB Software

12:45 - 13:30

Lunch Break

Provided by ISD

13:30 - 14:30

Session 6: Inquiry & Exploration Lessons Part 2 - ADDITION & SUBTRACTION

Progressing to Part Whole Thinking & Relating Addition to Subtraction

Numicon with Number Bonds, Equivalency, and Place Value,

Activity: Balance Scales How many ways to make ...

Activity: Family of Facts and Looking for a Difference

Activity: Making 10 Compared to Rounding and Compensation

14:30 - 15:30

Session 7: Inquiry & Exploration Lessons Part 3 - MULTIPLICATION & DIVISION

Introducing the patterns of Multiplication and Division

Showing Factors and Multiples

Activity: Teaching the 2, 5, & 10 times Tables

Playing with the patterns of other Multiplication Tables

Looking at Division and Grouping before Sharing

Floating Afternoon Tea Break at During this Session

15:30 - 16:00

Session 9: Implementing Numicon

How will numicon be used in your school? Q&A Session.

Review of Day

Feedback Forms

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