



Communication board with mathematical concepts

AAC Tool

Material needed:

- **Communication board with symbols of mathematical concepts:** numbers, quantities (more/less), sizes (larger/smaller), order (first/last), spatial relations (above/below/between)
- **Cards with numbers and illustrations from the story**
- **Manipulative materials:** figurines of ducklings and swans, shape puzzles, counting cubes
- **Interactive math applications for additional practice**

Key competence: numeracy

GENERAL OBJECTIVES

This communication board was developed to encourage **early mathematical thinking and expression** in all children, including those with communication difficulties. Using familiar content from the tale The Ugly Duckling, children **connect abstract concepts (numbers, quantities, spatial relationships) with concrete situations** and characters from the story. The tool encourages active participation, collaboration, and understanding of basic mathematical concepts.



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**Plural
Words**

HOW TO USE IT

The communication board is used in **parallel with the story activities**. While counting the characters, children use the symbols on the board to indicate quantities and compare them (“more”, “less”, “equal”). In tasks with spatial orientation, they use symbols to express the position of objects (“above”, “below”, “between”). While comparing sizes or colours, children can choose symbols for “bigger”, “less”, “same”. Adults or educators model the use of the board and encourage children to participate using symbolic language with verbal support.

HOW TO CREATE IT

Symbols for mathematical concepts can be created using free resources.

The symbols are printed, laminated, and organised on a thematically divided communication board. It is recommended that the board be visually clear, with clearly marked categories (e.g., “Numbers”, “Spatial concepts”, “size”). It can be personalised according to the needs of the group or individual child.



ONE



TWO



THREE



FOUR



FIVE



SIX



SEVEN



EIGHT

9

NINE

10

TEN

11

ELEVEN

12

TWELVE

13

THIRTEEN

14

FOURTEEN

15

FIFTEEN

16

SIXTEEN

17

SEVENTEEN

18

EIGHTEEN

19

NINETEEN

20

TWENTY

















