

Numeracy Catch Up Kit

This material is designed to support interventions for children needing early numeracy concepts.

In general, these concepts are:

- Counting
- Writing numbers
- Building numbers with manipulatives
- Representing numbers (standard form, expanded, and written/word form)
- Understanding place value
- Number bonds (taking numbers apart: 7 is 5 and 2 or 4 and 3 etc)
- Fact families
- **Making ten** Using ten frames, number bonds to ten, learning to search for opportunities to make friendly numbers
- Skip counting
- Connecting skip counting to repeated addition and then multiplication
- Basic operation: Addition and subtraction, taught together and integrated (fact families)
 - Later, multiplication and division, taught together and integrated (fact families)
- Connecting skip counting to arrays and multiplication.
- Connecting multiplication to factors and multiples and divisibility. This vocabulary is important (grade 4 and up)



This resource is separated into sections : Representing Numbers, Counting and Subitizing, and Operation, but it is not intended to work through one section then the next and next, as these three concepts/skills are interlinked. Rather, **stratify instruction across the three areas.**

The instruction needs to be **interactive**, with lots of opportunities for students to use **manipulatives**, explore, model, **connect** manipulatives with models and numbers, and **explain** their reasoning. Students need to verbalize their thinking.

The games and activities included are an important part of leading students to **apply** reasoning and concepts.

Discuss strategies, as per the strategy cards. Have student **explain** how they reasoned through computations.

Parents and caregivers can help by encouraging a growth mindset, talking about math and playing the games included here.

