



# ASSESSMENT FOR LEARNING AND TEACHING TRACKING SHEET

## Kindergarten: Number Sense and Numeration

Circle: **D (Diagnostic Assessment)**, **F (Formative Assessment)** or **S (Summative Assessment)** depending on use.

Levels of Achievement: **Beginning**, **Progressing**, **Sophisticated**



### OVERALL EXPECTATION:

**Demonstrate an understanding of numbers, using concrete materials to explore and investigate counting, quantity, and number relationships**

Identify equivalent sets: subitizing, counting one-to-one <b>Activities 1-3</b>	Demonstrate one-to-one counting, subitizing, conservation of number <b>Activities 4-6</b>	Demonstrate one-to-one correspondence <b>Activities 7-10</b>	Order numbers on a concrete number line <b>Activities 11-12</b>	Relate numbers 1-5 to their corresponding numerals <b>Activities 13-14</b>	Explore different ways to compose five <b>Activities 15-16</b>	Interpret representations of numbers 0-5: five frames and number lines <b>Activities 17-18</b>	Interpret representations of numbers 5-10: numerals, ten frames and number lines <b>Activities 19-20</b>	Explore ways to compose ten and to use ten as an anchor number <b>Activities 21-24</b>
--	--	---	--	---	---	---	---	---

Student Name	D	F	S	D	F	S	D	F	S	D	F	S	D	F	S	D	F	S	D	F	S	D	F	S	Next Steps
																									<b>IDEAS:</b> ■ Give students lots of opportunities to use counters, number cubes, connecting cubes, and five and ten frames to explore number and number relationships. ■ Ask questions to probe for deeper meaning. E.g. "How do you know? Show me, tell me."

Since *Quickcheck Math* was developed specifically for the Ontario Mathematics Curriculum, its uses should be guided by the Ontario Mathematics Curriculum documents, The Kindergarten Program or The Full-Day Early Learning-Kindergarten Program and the Guides to Effective Instruction in Mathematics produced by the Ontario Ministry of Education. Each of the five *Quickcheck Math* books contains content that is developed around one Overall Expectation per strand from the Ontario Mathematics Curriculum. Ontario primary teachers have found a variety of effective ways to use *Quickcheck Math* within this context. Several are summarized here.

## Linking Assessment...

*"Assessment is an ongoing awareness of students' learning and their needs, rather than an occasional event in the program. Minute-by-minute observations of students, along with an understanding of how children learn, allow teachers to make valid decisions and judgments..."*

— Ontario Ministry of Education (2006).

*A Guide to Effective Instruction in Mathematics, Volume Four: Assessment and Home Connections*, 3.

- **Diagnostic Assessment:** Go to the inside cover of the book. Select a group of activities for students to complete and conference with them about what they are doing. Use this information to support your instructional plan and to guide your next steps.
- **Formative Assessment:** *Quickcheck Math* activities are sequential and clustered. The answer key at the bottom of each activity provides immediate feedback to students and teachers about progress.
- **Summative Assessment:** It is important to plan your units of study with the end in mind. Pre-select a *Quickcheck Math* activity for the purpose of summative assessment prior to your unit of study. Design your own summative task using a selected page as the stimulus (no need to use the answer key at the bottom of the activity).

## ... to Instruction

*"Teaching that is responsive to students' needs uses moment-by-moment assessment information to modify instruction as it is taking place."*

— Ontario Ministry of Education (2006).

*A Guide to Effective Instruction in Mathematics, Volume Four: Assessment and Home Connections*, 12.

- **Before/Getting Started:** Based on the outcome of a previous lesson, select an activity that children can review to activate relevant prior knowledge for the new lesson.
- **During/At Work:** Use a selected series of activities for guided practice with a group of students who have the same instructional need.
- **After/Practice and Consolidation:** After completing one or more *Quickcheck Math* activity, students are asked to reflect on what they learned in their math journal. Select a series of activities for the purposes of further practice. This activity could be done at home or at school.

*Quickcheck Math* Tracking Sheets and Preamble concept inspired and developed by Maureen Baraniecki, Elementary Curriculum Coordinator, Hastings and Prince Edward District School Board.