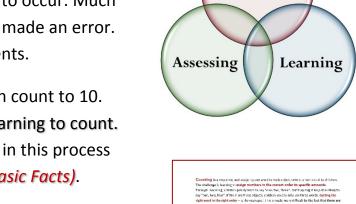
Assessment, Evaluation and Reporting A Quick Guide Fact Families all the Facts

Assessment is possibly the most crucial step in the teaching/learning process. Students require feedback or must self-correct for learning to occur. Much of what we learn occurs because we have made an error. We should learn to celebrate these moments.

This package assumes that the student can count to 10. The earliest stages in numeracy involve learning to count. There are six patterns (principles) learned in this process (see page 7 of the Planning to Learn the Basic Facts).

If a student cannot count to 10, it will be very difficult to teach addition and subtraction. A combination of games and direct instruction will be necessary. The focus should be on teaching order and subitization using Power of Ten[™] cards, dice, dominoes, and counting games (Snakes and Ladders).



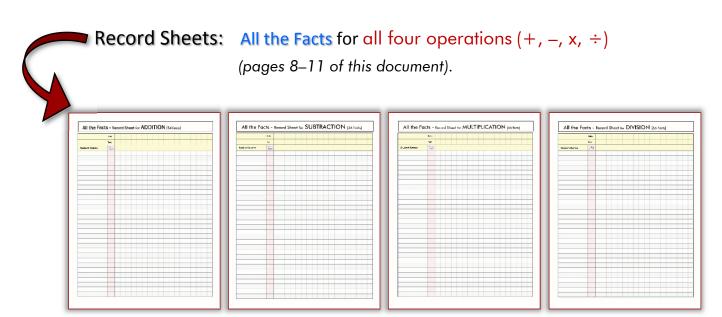
Teaching





All the FACT

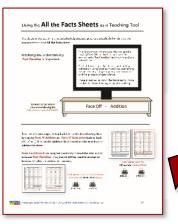
- **Stage 1:** (page 4 of this document) **Assessment Sheet** includes subitization games, order and connecting numerals to amounts.
- Stage 2: (page 5 of this document) Assessment Sheet includes subitization games and connecting Fact Families and Friendly Numbers to addition and subtraction patterns using the Fact Families sheets where the sums are less than or equal to ten.
- Stage 3: (page 6 of this document) Assessment Sheet includes games designed to teach patterns and strategies for adding equations that have sums greater than 10 and less than 20. These are taught using Forms A and B and then assessed using the All the Facts sheets.
- Stage 4: (page 7 of this document) Assessment Sheet includes games and connecting the knowledge of doubles and doubling to multiplication using the All the Fact Multiplication Patterns sheets and eventually to the All the Facts Multiplication and Division Sheets.

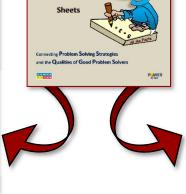


Please see the following chapters for more details on

Assessment and Evaluation

Planning to Learn the Basic Facts

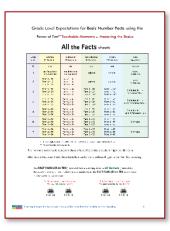




Planning to Learn the

BASIC FACTS

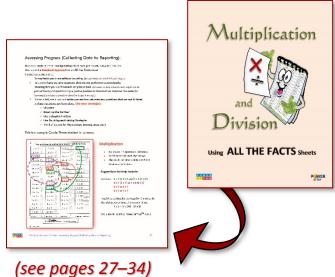
All the FACT



(see pages 39 - 68)

See page 61 for appropriate times for administrating the All the Facts sheets.

Multiplication and Division Using ALL THE FACTS Sheets





Stage 1 – Assessing Readiness – Subitization

Colour in half the oval to indicate the activity has been introduced.

Colour in the entire oval to indicate student mastery. That student is ready to move to Stage 2.

				Gam	es				SI	cills to Asse	SS
Name	Match It 1-10 Five Up	Match It 1-5	Five Up	Seven Up	Ten Up	Fish	Face Off	Concentration	Orders ten-frame cards 1-10	Connects numerals to cards	Subitizes without hesitation
								udently beginning the			

Note: students do not have to play all the games but must have all the circles filled in the 'skills' section before independently beginning the Fact Families sheet.



Stage 2 – Assessing Knowledge of Basic Facts – Evaluation Record for the Fact Families '+' and '-' sheets Colour in half the oval to indicate the activity has been introduced. Colour in the entire oval to indicate student mastery. That student is record for the Fact Families '+' and '-' sheets Colour in the entire oval to indicate student mastery.

Colour in the entire oval to indicate student mastery. That student is ready to move to Stage 3.

			Game	es				Skills to	Assess	3		
Name	Using Fact Friendly Sheets +, –	Friendly Match It	Friendly Fish	Friendly Concentration	Slap Jack Ten	Leaves out unknown facts (scans)	Does not use fingers or counts	Knows friendly numbers to 10	Adds 1	Adds 2	Adds 5	Number of facts known (10 min.)
					filled in the l							



Note: Students do not have to play all the games but must have all the circles filled in the 'skills' section before independently beginning Stage 3, the All the Facts sheet.

QG - Assessment, Evaluation and Reporting

Stage 3 – Assessing Knowledge of Basic Facts – Evaluation Record for the All the Facts '+' and '-' sheets

Colour in half the oval to indicate the activity has been introduced.

Colour in the entire oval to indicate student mastery. That student is ready to move to Stage 4.

				Gan	nes					Skills	to As	ssess				
Name	Power of Ten Face Off	Power of Nine Face Off	Power of Five Face Off	Power of Eight Face Off	Face Off Challenge	Doubles	Power of Ten Solitaire	Leaves out unknown facts (scans)	Does not use fingers or counts	Knows friendly numbers to 10	1	Adds / Sı 2	ubtracts ((Pattern) 5	8	Number of facts known (10 min.)
															\bigcirc	
						\bigcirc								\bigcirc	\bigcirc	
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Stage 4 - Assessing Knowledge of Basic Facts - Evaluation Record for the Basic Multiplication Patterns Getting Sarted sheet

Colour in half the oval to indicate the activity has been introduced.

Colour in the entire oval to indicate student mastery. That student is ready for All the Facts mult/div sheet.

		Games Juble Double-Doubles Challenge Strategy 500									Skills to	Assess			
Name	Double				p	nderstan attern fo	r:	Connects 10 x pattern to 5 x pattern	Knows 2 x 'doubling' pattern	Connects 2 x 'doubling' pattern to 4 x	Connects 4 x 'doubling' pattern to 8 x	Stage 5 # of x facts known in 10 min.	Stage 5 # of ÷ facts known in 10 min.	Stage 5 # of x facts known in min.	Stage 5 # of ÷ facts known in min.
					\bigcirc		\bigcirc								
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Note: students do not have to play all the games but must have all the circles filled in the 'skills' section before independently beginning Stage 5, the *All the Facts Multiplication and Division* sheets.

Once the student knows the facts in 10 min. start to reduce the time to 8 min. and then 6 min. (Grade 5), and then 3 min. (Grade 6). Timed tests under 10 minutes can induce anxiety – be aware that some students may require more time than the limits stated due to handwriting or other anxiety issues. Have those students finish the sheet after the time limit in a place agreeable to the student.



All the Facts - Record Sheet for ADDITION [54 facts]

	Date									
	Test									
Student Names	Writing Speed									



All the Facts - Record Sheet for SUBTRACTION [54 facts]

Test Student Names Verification In the state of the sta											
		Date									
Student Names Viving Special Control Contro		Test									
	Student Names	Writing Speed									
		·									



All the Facts - Record Sheet for MULTIPLICATION [66 facts]

	Date									
	Test									
Student Names	Writing Speed									



All the Facts - Record Sheet for DIVISION [65 facts]

	Date									
	Test									
Student Names	Writing Speed									

