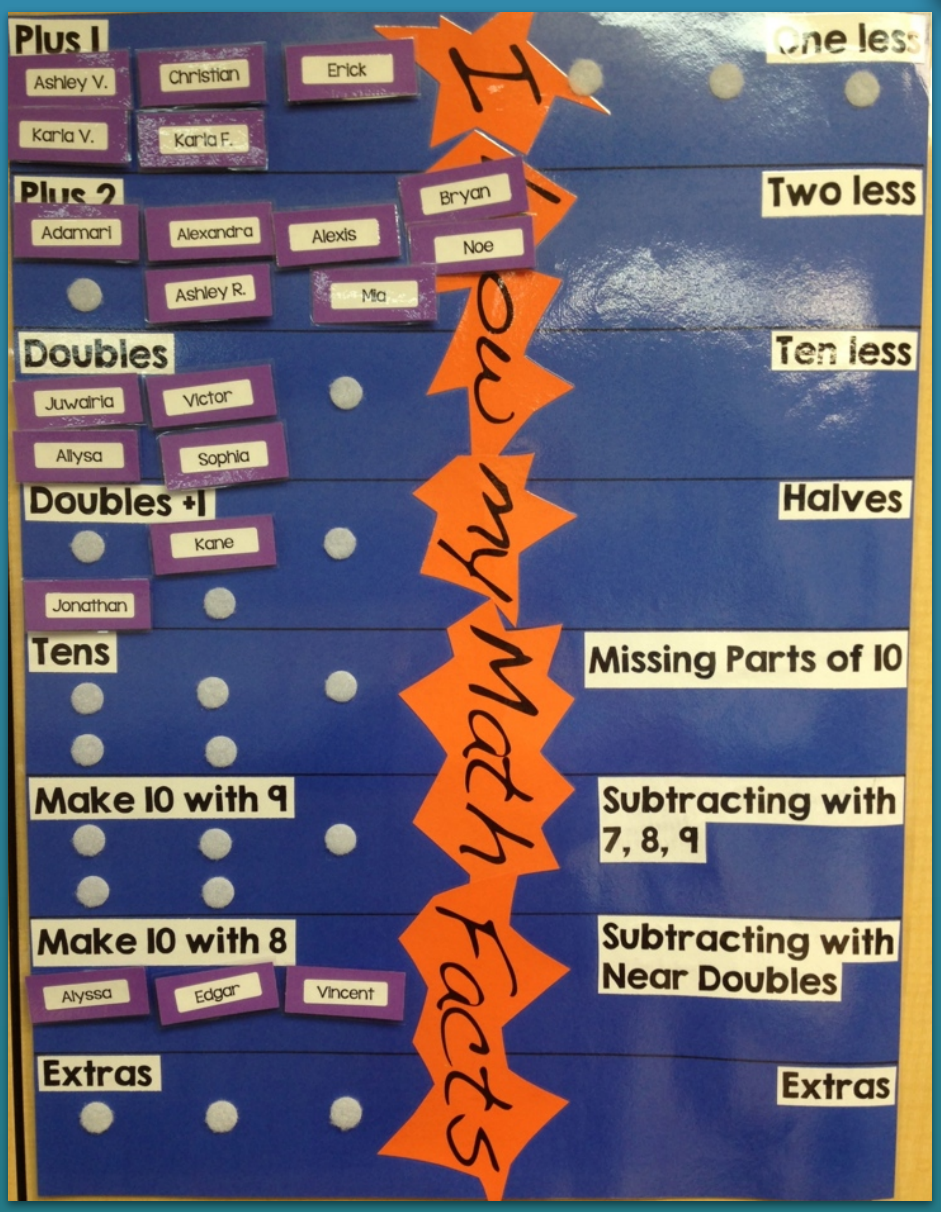
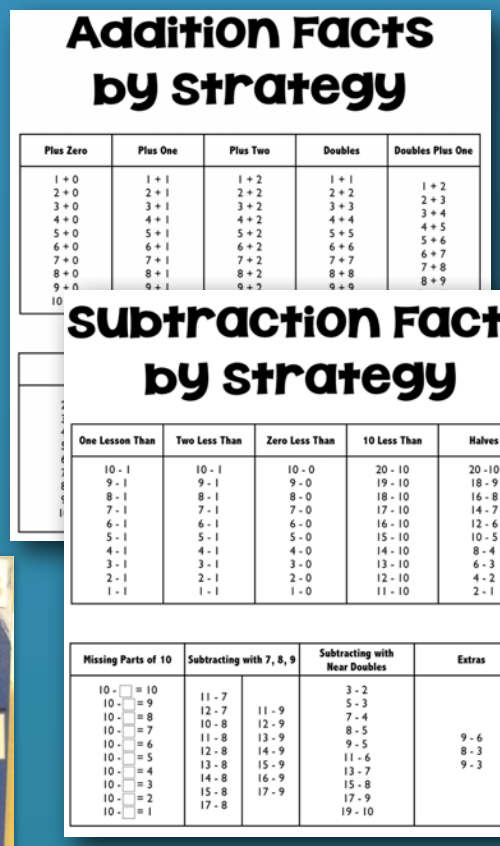
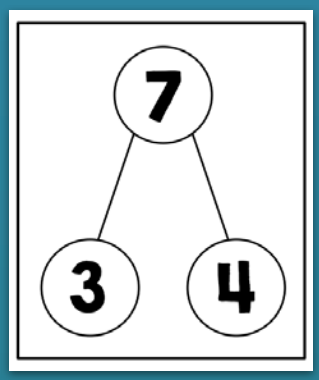
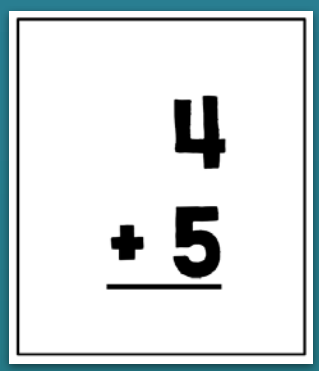
Automaticity Assessments for Addition and Subtraction Facts by Strategy











By: Jessica Boschen
What I Have Learned

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Teacher Notes

These Automaticity Assessments for Addition and Subtraction are designed to help students memorize their math facts, focusing on one strategy at a time.

Each page has 20 math facts related to a specific strategy. The assessment is designed to be done in one minute. Each problem should take students 3 seconds. If students are taking longer than 3 seconds, they don't have it memorized. This is the same rule of thumb that students should use when practicing facts with partners or at home.

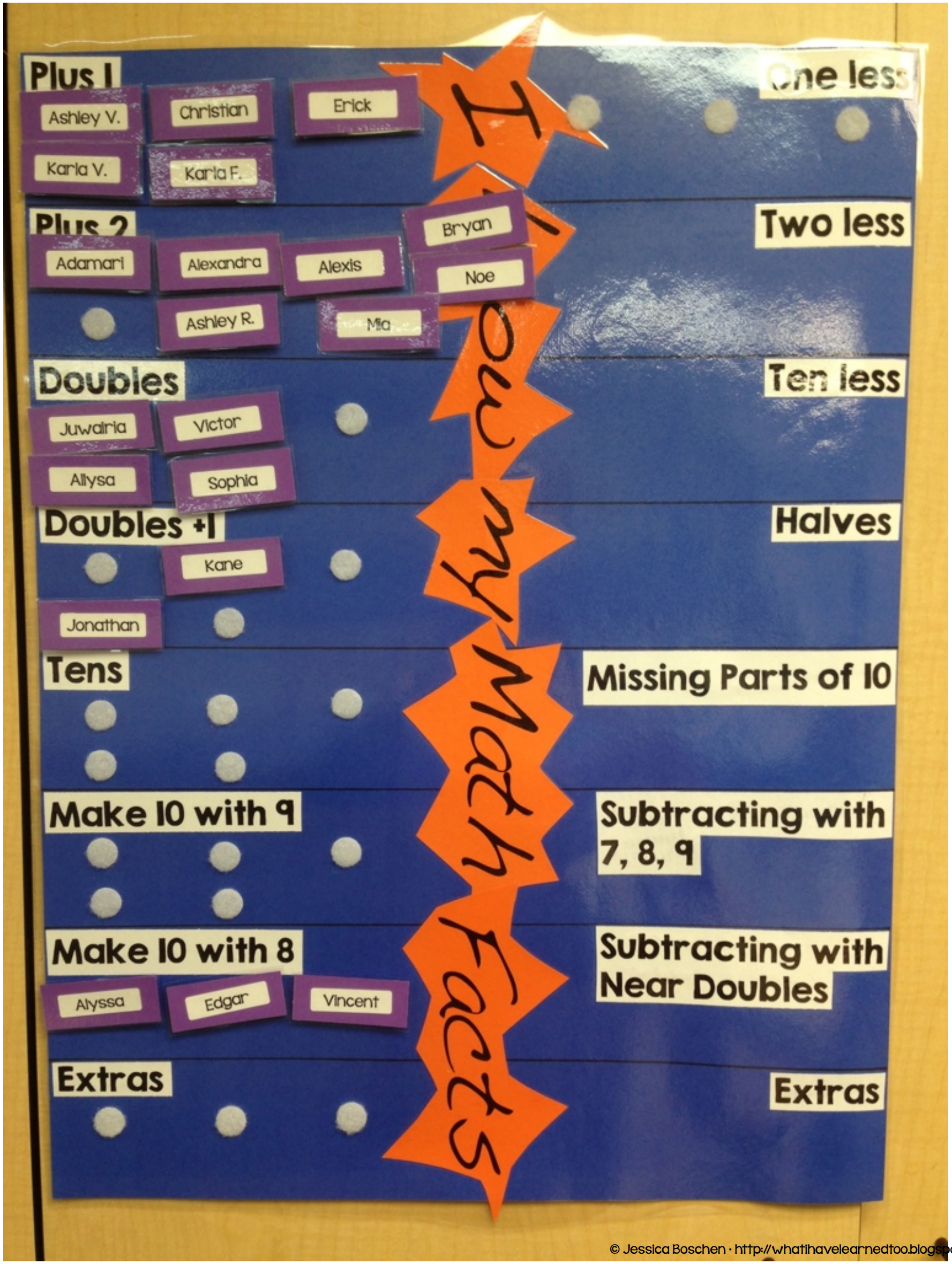
The subtracting extra facts are grouped with the subtracting 7,8, and 9s since there are so few.

I have students keep their assessment sheets in whiteboard / page protectors and reuse it every time we do an automaticity assessment. If students finish in under a minute I collect those who finished, quickly check them and change out their assessment sheet for the next one. I usually do about two or three automaticity assessments a week.

Use the data tracking sheet to record the date the student passed the assessment. It's also a good idea to create a classroom visual so that students can see how they're doing and where they need to go. I created one on poster paper and using velcro, move students up as they master a certain set of facts.

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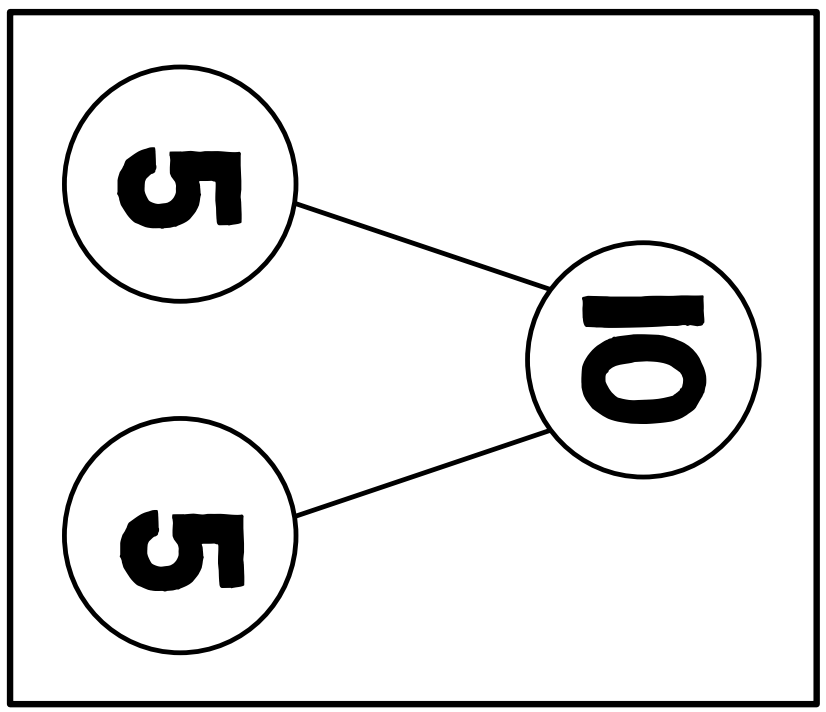
An example of how we track whole class data

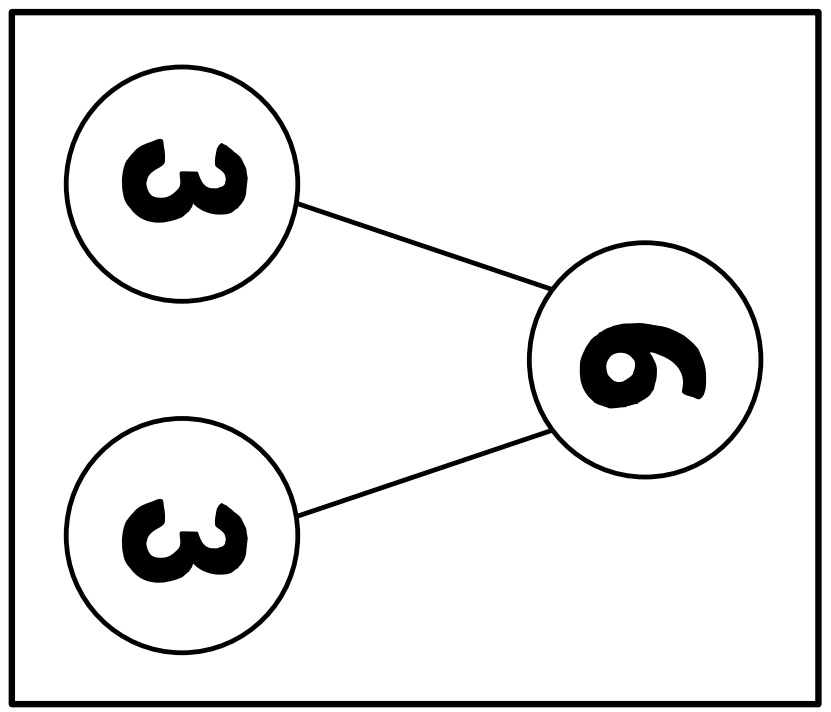


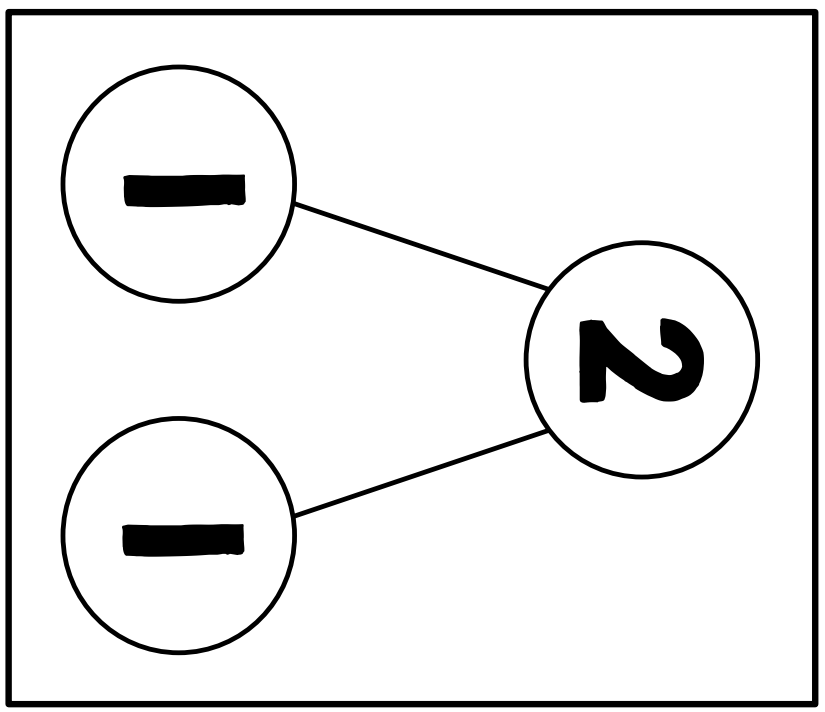
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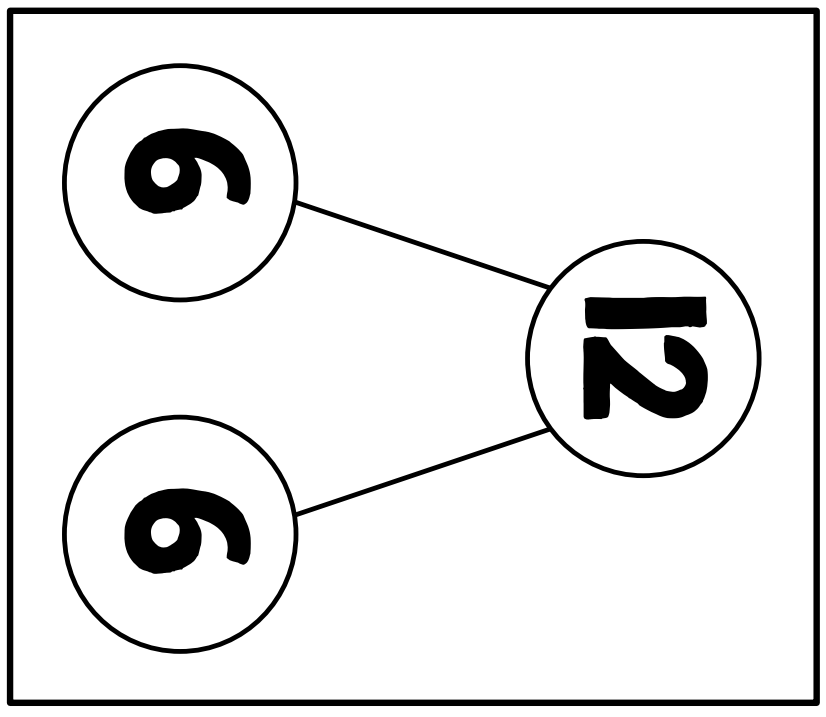
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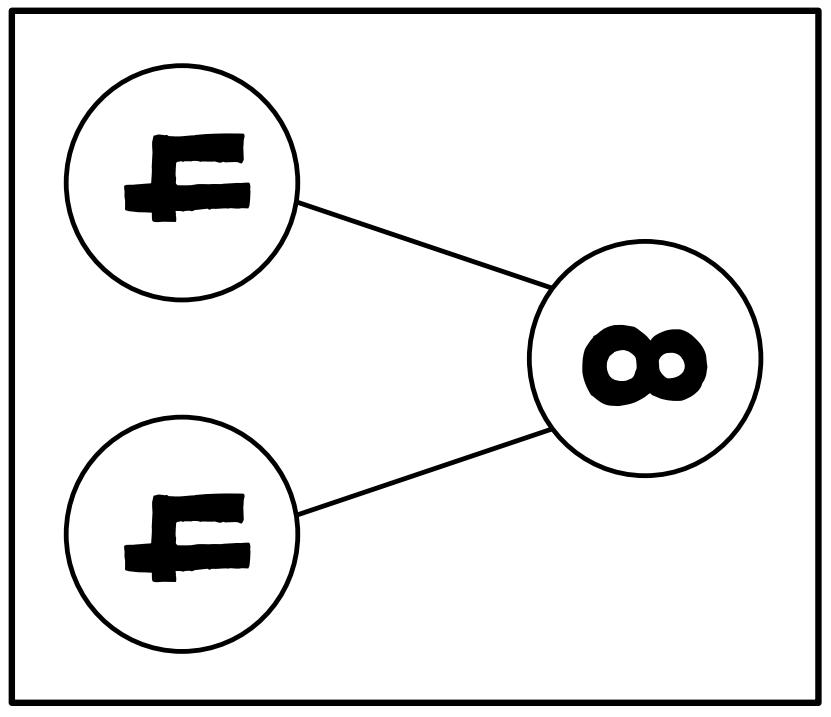
Doubles Number Bonds

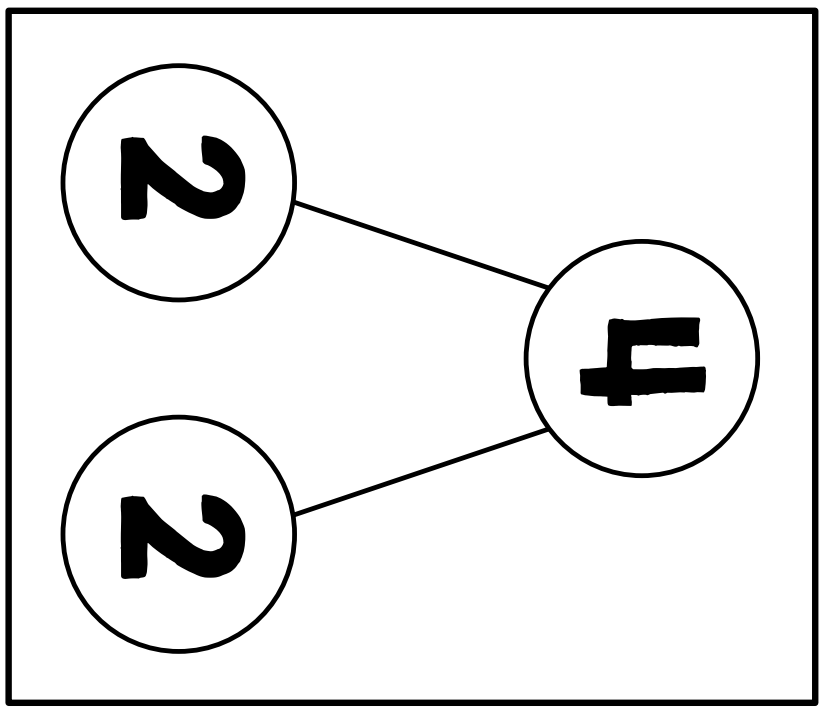












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Doubles Flash Cards

5 + 5	3 + 3	1 + 1
0 + 0	4 + 4	2 + 2

Recording Sheets & Order of Learning & Assessing

The Following recording sheets are available in two formats:

1. By strategy focus all addition and then all subtraction
2. By strategy focus with addition and subtraction intermingled

Two suggested orders of learning and teaching

All Addition & Then All Subtraction	Addition & Subtraction Intermingled
Plus Zero	Plus One
Plus One	Plus Two
Plus Two	Plus Zero
Doubles	One Less Than
Doubles Plus One	Two Less Than
Tens	Zero Less Than
Make Ten with Nine	Ten More Than
Make Ten with Eight	Ten Less Than
Extras (addition)	Doubles
One Less Than	Halves
Two Less Than	Missing Parts of Ten
Ten Less Than	Make Ten with Nine
Halves	Make Ten with Eight
Missing Parts of Ten	Subtracting with 7, 8, 9
Subtracting with 7, 8, 9	Doubles Plus One
Subtracting with Doubles	Subtracting with Doubles
Extras	Extras

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Addition Facts by Strategy

Plus Zero	Plus One	Plus Two	Doubles	Doubles Plus One
1 + 0	1 + 1	1 + 2	1 + 1	1 + 2
2 + 0	2 + 1	2 + 2	2 + 2	2 + 3
3 + 0	3 + 1	3 + 2	3 + 3	3 + 4
4 + 0	4 + 1	4 + 2	4 + 4	4 + 5
5 + 0	5 + 1	5 + 2	5 + 5	5 + 6
6 + 0	6 + 1	6 + 2	6 + 6	6 + 7
7 + 0	7 + 1	7 + 2	7 + 7	7 + 8
8 + 0	8 + 1	8 + 2	8 + 8	8 + 9
9 + 0	9 + 1	9 + 2	9 + 9	9 + 10
10 + 0	10 + 1	10 + 2	10 + 10	

Tens	Make Ten w/ Nine	Make Ten w/ Eight	Extras
2 + 10	2 + 9	2 + 8	
3 + 10	3 + 9	3 + 8	3 + 7
4 + 10	4 + 9	4 + 8	4 + 7
5 + 10	5 + 9	5 + 8	5 + 7
6 + 10	6 + 9	6 + 8	3 + 5
7 + 10	7 + 9	7 + 8	3 + 6
8 + 10	8 + 9	8 + 8	4 + 6
9 + 10	9 + 9	9 + 8	
10 + 10	10 + 9	10 + 8	

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plus zero

Name: _____

10 + 0	5 + 0	0 + 7	3 + 0
0 + 3	4 + 0	0 + 1	0 + 6
4 + 0	6 + 0	0 + 2	0 + 10
7 + 0	0 + 8	9 + 0	2 + 0
8 + 0	1 + 0	0 + 5	0 + 9

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Subtraction Facts by Strategy

One Lesson Than	Two Less Than	Zero Less Than	10 Less Than	Halves
10 - 1	10 - 2	10 - 0	20 - 10	20 -10
9 - 1	9 - 2	9 - 0	19 - 10	18 - 9
8 - 1	8 - 2	8 - 0	18 - 10	16 - 8
7 - 1	7 - 2	7 - 0	17 - 10	14 - 7
6 - 1	6 - 2	6 - 0	16 - 10	12 - 6
5 - 1	5 - 2	5 - 0	15 - 10	10 - 5
4 - 1	4 - 2	4 - 0	14 - 10	8 - 4
3 - 1	3 - 2	3 - 0	13 - 10	6 - 3
2 - 1	2 - 2	2 - 0	12 - 10	4 - 2
1 - 1	1 - 2	1 - 0	11 - 10	2 - 1

Missing Parts of 10	Subtracting with 7, 8, 9		Subtracting with Near Doubles	Extras
10 - ☐ = 10	11 - 7	11 - 9	3 - 2	9 - 6
10 - ☐ = 9	12 - 7	12 - 9	5 - 3	8 - 3
10 - ☐ = 8	10 - 8	13 - 9	7 - 4	9 - 3
10 - ☐ = 7	11 - 8	14 - 9	8 - 5	
10 - ☐ = 6	12 - 8	15 - 9	9 - 5	
10 - ☐ = 5	13 - 8	16 - 9	11 - 6	
10 - ☐ = 4	14 - 8	17 - 9	13 - 7	
10 - ☐ = 3	15 - 8		15 - 8	
10 - ☐ = 2	17 - 8		17 - 9	
10 - ☐ = 1			19 - 10	

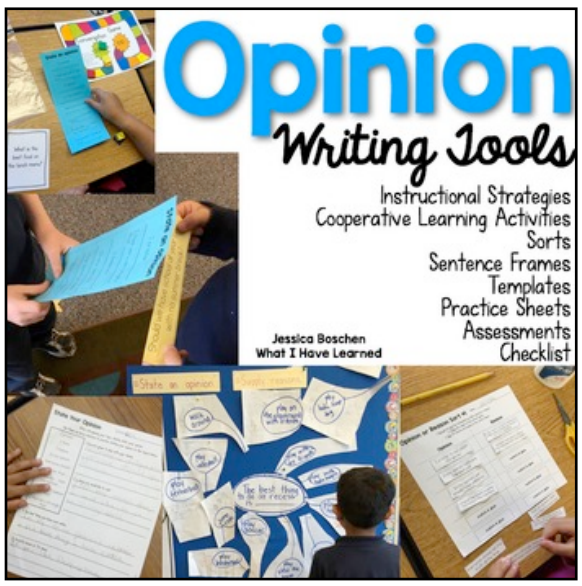
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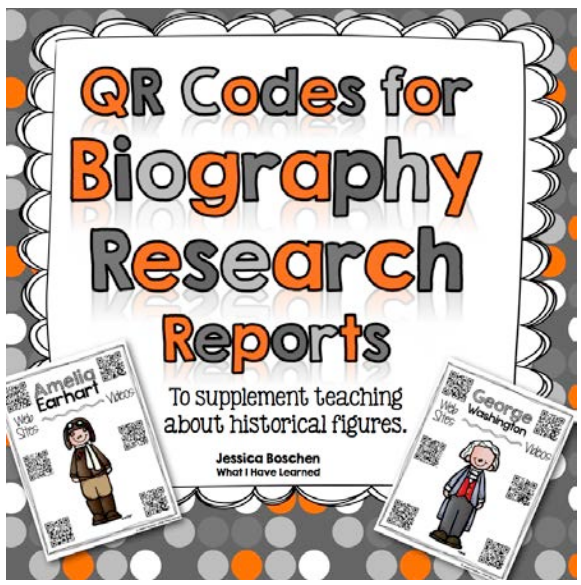
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