

# Building Fact Fluency

A TOOLKIT FOR ADDITION & SUBTRACTION



## Possible Multi-Year Pacing Guides for *Building Fact Fluency*: *A Toolkit for Addition & Subtraction*

There are many ways to use the materials in the *Building Fact Fluency* toolkit across multiple grades, and we feel strongly that the best way to build a year-over-year schedule is to collaborate with your team members. However, we heard from teachers that a starting point would be helpful for that conversation, so we crafted two possible pacing guides that might generate ideas about how to spread the materials across K–2. In both of these examples, we interleaved, spaced, and varied practice so the ideas build in a coherent way, but we chose different tasks for different grades to avoid repetition. Detailed versions of these pacing guides, showing exactly which tasks might be taught in different years, are available on the Companion Website. The general overview that follows shows two ways the strategies might be distributed across the grade levels.

This toolkit can also be used beyond grades K–2, for students who have not yet had sufficient opportunities to make sense of addition and subtraction and could use more practice. We hope these schedules also help in that circumstance, because you can see ways to take pieces from each of the Lesson Strings to form a coherent, multi-week plan.



## Option A

In this possible pacing guide, the foundational and derived strategies from Bay-Williams and Kling (2019) are spread across K–2, with the foundational fact strategies emphasized in K–1 and the derived fact strategies emphasized in 1–2.

Lesson String	Strategy	Context	Kindergarten (28 weeks)	First Grade (32 weeks)	Second Grade (16 weeks+)
1	Sums within 5	Crayons	2 weeks	1 week	Second-grade teachers can assign games from the foundational contexts to provide practice and formatively assess students. If students need more practice in the foundational strategies (beyond the four weeks recommended below), there are still plenty of opportunities to teach new materials from those contexts, especially through games and Contextualized Practice Problems (the majority of the practice problems won't have been used in K–1).
2	Plus and Minus 0, 1, 2	Shells	2 weeks	2 weeks	
3	Sums within 5	Marbles	2 weeks	1 week	
4	Combinations for 10	Buttons	2 weeks	1 week	
5	10 and Some More	Markers	2 weeks	1 week	
6	Plus and Minus 0, 1, 2	Bears	2 weeks	1 week	
7	Sums within 5	Toy Cars	2 weeks	1 week	
8	Combinations for 10	Markers	2 weeks	1 week	1 week
9	Doubles	Lemonade	2 weeks	2 weeks	
10	Combinations for 10	Peppers	2 weeks	2 weeks	
11	10 and Some More	Pizza	2 weeks	1 week	
12	Doubles	Apples	1 week	2 weeks	
13	Plus and Minus 0, 1, 2	Blocks	2 weeks	1 week	1 week
14	Near Doubles	Apples		2 Weeks	2 weeks (teach AFTER 1 week of #16 - Eggs)
15	10 and Some More	Coins	2 weeks	1 week	1 week
16	Doubles	Eggs	1 week	2 weeks	1 week
17	Pretend-10/ Make-10	Markers		2 weeks	2 weeks
18	Near Doubles	Eggs		2 weeks	2 weeks
19	Pretend-10/ Make-10	Pizza		2 weeks	2 weeks
20	Near Doubles	Chopsticks		2 weeks	2 weeks
21	Pretend-10/ Make-10	Tennis Balls		2 weeks	2 weeks

## Option B

In this possible pacing guide, the foundational and derived strategies from Bay-Williams and Kling (2019) are spread evenly across K–2, so students can practice all strategies in all years.

Lesson String	Strategy	Context	Kindergarten (30 weeks)	First Grade (32 weeks)	Second Grade (20 weeks)
1	Sums within 5	Crayons	2 weeks	1 week	
2	Plus and Minus 0, 1, 2	Shells	2 weeks	1 week	1 week
3	Sums within 5	Marbles	2 weeks	1 week	
4	Combinations for 10	Buttons	2 weeks	1 week	
5	10 and Some More	Markers	2 weeks	1 week	
6	Plus and Minus 0, 1, 2	Bears	2 weeks	1 week	
7	Sums within 5	Toy Cars	1 week	1 week	
8	Combinations for 10	Markers	1 week	2 weeks	1 week
9	Doubles	Lemonade	2 weeks	1 week	1 week
10	Combinations for 10	Peppers	1 week	2 weeks	1 week
11	10 and Some More	Pizza	1 week	2 weeks	1 week
12	Doubles	Apples	1 week	2 weeks	1 week
13	Plus and Minus 0, 1, 2	Blocks	1 week	2 weeks	1 week
14	Near Doubles	Apples	2 weeks	1 week	1 week
15	10 and Some More	Coins	1 week	2 weeks	1 week
16	Doubles	Eggs	1 week	2 weeks	1 week
17	Pretend-10/ Make-10	Markers	2 weeks	1 week	2 weeks
18	Near Doubles	Eggs	1 week	2 weeks	2 weeks
19	Pretend-10/ Make-10	Pizza	1 week	2 weeks	2 weeks
20	Near Doubles	Chopsticks	1 week	2 weeks	2 weeks
21	Pretend-10/ Make-10	Tennis Balls	1 week	2 weeks	2 weeks

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