

Addition & Subtraction within 20 Strategy Rubric

	0	1	2	3	4	5
Add within 5 ($3 + 2$ or $2 + 3$)	Unable to solve	Add within 5 counting all	Add within 5 counting on	Solves incorrectly while using a strategy or gets a correct answer but can't explain through a strategy	Solves correctly using strategy with explanation but not yet fluent	Fluently add within 5 using a strategy and explains correctly
Add 1 or 2 more than	Unable to solve	Add 1 or 2 more by counting all	Add 1 or 2 more by counting on	Solves incorrectly while using a strategy or gets a correct answer but can't explain through a strategy	Solves correctly using strategy with explanation but not yet fluent	Fluently add 1 or 2 more than correctly and explains correctly
Subtract 1 or 2 less than	Unable to solve	Subtract 1 or 2 less than by counting all	Subtract 1 or 2 less than by counting down or counting back	Solves incorrectly while using a strategy or gets a correct answer but can't explain through a strategy	Solves correctly using strategy with explanation but not yet fluent	Fluently subtract 1 or 2 more than correctly and explains correctly
Add 0 & Subtract 0	Unable to solve	Able to do one but not both	NA	Able to do both without explanation	NA	Able to do both and explain why
Using 5 as a Benchmark (adding within 10; $4 + 3$)	Unable to solve	Add within 10 counting all	Add within 10 counting on	Solves incorrectly while using a strategy or gets a correct answer but can't explain through a strategy	Solves correctly using strategy with explanation but not yet fluent	Fluently add within 10 using a strategy and explains correctly
Combinations that makes 10	Unable to solve	Makes a combination that makes 10 counting all	Make a combination that makes 10 counting on	Solves incorrectly while using a strategy or gets a correct answer but can't explain through a strategy	Solves correctly using strategy with explanation but not yet fluent	Fluently solves and explains strategy correctly
Add 10 more than a given number within 100 (<i>Ex: $8 + 10$</i>)	Unable to solve	Add 10 more than a given number by counting all	Add 10 more than a given number by counting on	Solves incorrectly while using a strategy or gets a correct answer but can't explain through a strategy	Solves correctly using a place value strategy with explanation but not yet fluent	Fluently add 10 more than a given number using a place value strategy and explains correctly
Subtract 10 from a given number within 100 (<i>Ex: $17 - 10$</i>)	Unable to solve	Subtracts 10 from a given number by counting all	Subtracts 10 from a given number by counting back or counting down	Solves incorrectly while using a strategy or gets a correct answer but can't explain through a strategy	Solves correctly using a place value strategy with explanation but not yet fluent	Fluently subtracts 10 from a given number using a place value strategy and explains correctly
Addition: Uses Doubles (<i>Ex: $6 + 7$</i>)	Unable to solve	Solves by counting all	Solves by counting on	Solves incorrectly while using a strategy or gets a correct answer but can't explain through a strategy	Solves correctly using strategy with explanation but not yet fluent	Fluently solves and explains strategy correctly

Fluent is defined as solving within 3-5 seconds, knowing how a number can be composed and decomposed, and then using that information to be efficient and flexible when solving the problem through the use of strategies.

*If shown through assessment do not ask again, if not, pose another problem and ask student to solve using a tens frame

Created in partnership by Jeremiah McGraw and Ann Rozek, April 2015

Addition: Make Ten Strategy	Unable to solve	Solves by counting all	Solves by counting on	Solves incorrectly while using a strategy or gets a correct answer but can't explain through a strategy	Solves correctly using strategy with explanation but not yet fluent	Fluently solves and explains strategy correctly
Add within 20 (using multiple strategies: must be able to use make ten and doubles)	Unable to solve or uses counting strategies	Adds within 20 using a strategy but makes an error in the answer or in the strategy	Adds correctly within 20 using one strategy fluently and can explain strategy (unable to complete a 2nd strategy)	Adds correctly within 20 using one strategy fluently and can explain strategy (able to complete a second strategy but makes an error in the answer or in the strategy)	Adds correctly within 20 using multiple strategies and can explain each strategy	Adds correctly within 20 using multiple strategies fluently and can explain which strategy is most efficient
Subtraction: Think Addition	Unable to solve	Solves using a count down strategy	Solves by thinking addition but counts up	Solves incorrectly while using a strategy or gets a correct answer but can't explain through a strategy	Solves correctly using strategy with explanation but not yet fluent	Fluently solves and explains strategy correctly
Subtraction: Down Over 10	Unable to solve	Solves using a count down strategy	Able to break apart the value to be subtracted but unable to complete the strategy	Solves incorrectly while using a strategy or gets a correct answer but can't explain through a strategy	Solves correctly using strategy with explanation but not yet fluent	Fluently solves and explains strategy correctly
Subtraction within 20 (using think addition and down over 10: question must be able to use both strategies)	Unable to solve	Solves correctly using a counting strategy or solves incorrectly using think addition or down over ten	Subtracts correctly within 20 using one strategy fluently with efficient jumps and can explain strategy (unable to complete a second strategy)	Subtracts correctly within 20 using one strategy fluently with efficient jumps and can explain strategy (able to complete a second strategy but makes an error in the answer or in the strategy)	Subtracts correctly within 20 using multiple strategies with efficient jumps and can explain each strategy	Subtracts correctly within 20 using multiple strategies fluently and can explain which strategy is most efficient
Addition & Subtraction in context	Unable to solve 1 st problem (Do not give 2 nd problem)	Solves 1 st problem correctly using a counting strategy or correct but can't explain strategy (Do not give 2 nd problem)	Solves 1 st problem incorrectly using a strategy beyond counting (Do not give 2 nd problem)	Solves result unknown questions using a strategy with efficient jumps and explains correctly (Offer 2 nd problem) 2 nd problem is correctly or incorrectly solved using a counting strategy or solved correctly but strategy not explained	First problem was correct with strategy and explanation. 2 nd problem is incorrect using a strategy beyond counting	Solves multiple problem types using efficient strategies and explains correctly
*Add/Subtracts within 20 using a Tens Frame	Unable to solve	Sets up tens frame with the appropriate numbers	NA	Uses the tens frame to make groups of tens and ones	NA	Uses the tens frame to fluently solve

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