Dade County Schools Math Fluency Expectations

Grade level	Fact Fluency Expectations	Assessment & Recall Expectations
Kindergarten	Students will demonstrate fluency within 5 for addition & subtraction	- Observations - Anecdotal notes - Oral or written fluency tests
First Grade	Students will demonstrate fluency within 10 for addition & subtraction (for list of facts, see below) - Count Up: Plus 0's, 1's, 2's, 3's, 4's, 5's, 6's, 7's, 8's, 9's, & 10's - Count Back: Minus 1's, 2's, 3's, 4's, 5's, 6's, 7's, 8's, 9's, & 10's	- Written & timed fluency tests - Timed tests of one minute each given twice weekly beginning in October - Each test will have fifteen problems to work towards the CCGPS fluency standard of four seconds per problem.
Second Grade	Students will demonstrate fluency within 20 for addition & subtraction	- Written & timed fluency tests beginning in September - Each test will have fifteen problems to work towards the CCGPS fluency standard of four seconds per problem
Third Grade	Students will demonstrate fluency multiplying & dividing within 100 Students will also maintain addition & subtraction facts as stated in second grade	- Written & timed fluency tests - Facts will be taught & tested in this order: 1's, 2's, 5's, 10's, 3's, 4's, 1's-5's (mixed), 6's, 7's, 8's, 9's, 10's, 1's-10's (mixed)
Fourth Grade	Students will demonstrate fluency multiplying & dividing within 100; as well as, their 11's & 12's Students will also maintain addition & subtraction facts	- Written & timed fluency tests - Facts will be taught & tested in this order: 1's, 2's, 3's, 4's, 5's, 1's-5's (mixed), 6's, 7's, 8's, 9's, 10's, 1's-10's (mixed), 11's, 12's, 1's-12's (mixed). Fluency will be expected with 15 problems per minute
Fifth Grade	Students will demonstrate fluency multiplying & dividing within 100; as well as, their 11's & 12's Students will also maintain addition & subtraction facts	- Written & timed fluency tests - Fact tests will be mixed with multiplication & division problems - Fluency will be expected with 15 problems per minute, with times decreased as students are challenged

**These expectations are a minimum. Many students will be ready to go on & should be allowed opportunities to do so.

Grade K

Students will demonstrate fluency for addition & subtraction within 5

By the end of Kindergarten, students will have memorized all addition facts with sums to 5.

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

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

0+2 1+2 2+2 3+2

0+3 1+3 2+3

0+4 1+4

0+5

By the end of Kindergarten, students will have memorized all addition facts with minuends to 5.

5-0 4-0 3-0 2-0 1-0 0-0

5-1 4-1 3-1 2-1 1-1

5-2 4-2 3-2 2-2

5-3 4-3 3-3

5-4 4-4

5-5

Grade 1

Students will demonstrate fluency for addition & subtraction within 10

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

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

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

0+3 1+3 2+3 3+3 4+3 5+3 6+3 7+3

0+4 1+4 2+4 3+4 4+4 5+4 6+4

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

0+6 1+6 2+6 3+6 4+6

0+7 1+7 2+7 3+7

0+8 1+8 2+8

0+9 1+9

0+10

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

10-1 9-1 8-1 7-1 6-1 5-1 4-1 3-1 2-1 1-1

10-2 9-2 8-2 7-2 6-2 5-2 4-2 3-2 2-2

10-3 9-3 8-3 7-3 6-3 5-3 4-3 3-3

10-4 9-4 8-4 7-4 6-4 5-4 4-4

10-5 9-5 8-5 7-5 6-5 5-5

10-6 9-6 8-6 7-6 6-6

10-7 9-7 8-7 7-7

10-8 9-8 8-8

10-9 9-9

10-1

Grade 2

Students will demonstrate fluency within 20 for addition & subtraction

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

1-1	2-2	3-3	4-4	5-5	6-6	7-7	8-8	9-9	10-10
2-1	3-2	4-3	5-4	6-5	7-6	8-7	9-8	10-9	11-10
3-1	4-2	5-3	6-4	7-5	8-6	9-7	10-8	11-9	12-10
4-1	5-2	6-3	7-4	8-5	9-6	10-7	11-8	12-9	13-10
5-1	6-2	7-3	8-4	9-5	10-6	11-7	12-8	13-9	14-10
6-1	7-2	8-3	9-4	10-5	11-6	12-7	13-8	14-9	15-10
7-1	8-2	9-3	10-4	11-5	12-6	13-7	14-8	15-9	16-10
8-1	9-2	10-3	11-4	12-5	13-6	14-7	15-8	16-9	17-10
9-1	10-2	11-3	12-4	13-5	14-6	15-7	16-8	17-9	18-10
10-1	11-2	12-3	13-4	14-5	15-6	16-7	17-8	18-9	19-10
11-1	12-2	13-3	14-4	15-5	16-6	17-7	18-8	19-10	20-10

Grade 3

Students will demonstrate fluency multiplying & dividing within 100 (multiplication facts 1's-10's). Students will also maintain addition & subtraction facts from second grade.

Grades 4 & 5

Maintain all multiplication & division facts; as well as, demonstrate fluency for 11's & 12's