



NORTH CAROLINA
State Board of Education
Department of Public Instruction

Report to the North Carolina General Assembly

Advanced Courses in Mathematics

G.S. 115C - 81.36

Date Due: December 15, 2023

Submitted on behalf of the Office of the Superintendent

STATE BOARD OF EDUCATION

STATE BOARD OF EDUCATION VISION: Every public school student in North Carolina will be empowered to accept academic challenges, prepared to pursue their chosen path after graduating high school, and encouraged to become lifelong learners with the capacity to engage in a globally-collaborative society.

STATE BOARD OF EDUCATION MISSION: The mission of the North Carolina State Board of Education is to use its constitutional authority to guard and maintain the right of a sound, basic education for every child in North Carolina Public Schools.

ERIC DAVIS

Chair: Charlotte – At-Large

JILL CAMNITZ

Greenville – Northeast Region

JOHN BLACKBURN

Linville – Northwest Region

ALAN DUNCAN

Vice Chair: Greensboro – Piedmont-Triad Region

REGINALD KENAN

Rose Hill – Southeast Region

DONNA TIPTON-ROGERS

Brasstown – Western Region

MARK ROBINSON

Lieutenant Governor: High Point – Ex Officio

VACANT

North Central Region

J. WENDELL HALL

Ahoskie – At-Large

DALE FOLWELL

State Treasurer: Raleigh – Ex Officio

OLIVIA OXENDINE

Pinehurst – Sandhills Region

CATTY MOORE

Monroe – At-Large

CATHERINE TRUITT

Superintendent & Secretary to the Board: Cary

VACANT

Southwest Region

NC DEPARTMENT OF PUBLIC INSTRUCTION

Catherine Truitt, State Superintendent :: 301 N. Wilmington Street :: Raleigh, North Carolina 27601-2825

In compliance with federal law, the NC Department of Public Instruction administers all state-operated educational programs, employment activities and admissions without discrimination because of race, religion, national or ethnic origin, color, age, military service, disability, or gender, except where exemption is appropriate and allowed by law.

Inquiries or complaints regarding discrimination issues should be directed to:

Thomas Tomberlin, Senior Director, Educator Preparation, Licensure, and Performance, NCDPI
6301 Mail Service Center, Raleigh, NC 27699-6301 / Phone: (984) 236-2114 / Fax: (984) 236-2099

Visit us on the Web: www.dpi.nc.gov

1023

Report to the North Carolina General Assembly on Advanced Courses in Mathematics, per G.S. 115C-81.36.(c)

G.S. 115C-81.36 directs that, when practicable, local boards of education shall offer advanced learning opportunities in mathematics in grades three through five, and advanced courses in mathematics in all grades six and higher. For those advanced courses offered in mathematics in grades six and higher, any student scoring at the highest level on the end-of-grade or end-of-course test for the mathematics course in which the student was most recently enrolled shall be enrolled in the advanced course for the next mathematics course in which the student is enrolled. The legislation also specifically outlines that a student in seventh grade scoring at the highest level on the seventh-grade mathematics end-of-grade test shall be enrolled in a high school level mathematics course in eighth grade.

In accordance with the legislation, the NC Department of Public Instruction (NCDPI) shall submit a report to the Joint Legislative Education Oversight Committee containing data collected for the current school year on the number and demographics of students who were *eligible* for advanced mathematics courses under this section, including high school level mathematics courses in eighth grade, and of those students, the number and demographics of those who *were placed* in advanced mathematics courses and *were not placed* in advanced mathematics courses. Finally, the report shall include information on the type and format of advanced mathematics courses provided and shall also include any feedback provided by local boards of education on the implementation of G.S. 115C-81.36.

To comply with this legislation, NCDPI extracted enrollment data for all students currently in grades six and higher who were *eligible* for advanced courses from the NC Student Information System (NC-SIS) for all Local Education Agencies (LEAs). To support this data collection, all LEAs were required to run the AMC report within the NS-SIS. During the reporting period, LEAs had the opportunity to review and verify the data contained in the report, and if applicable, use the reporting override feature to manage any data corrections for students deemed to be either missing from the report, or erroneously reported as not placed in an advanced mathematics course before approving the report.

The data tables below respond to the legislated requirements, documenting the *eligible* students who were either *placed or not placed* in advanced mathematics courses, by sex, grade level, and ethnicity/race. These tables include a comprehensive overview of grades 6-12, and a specific look at grade 8 data, as the legislation specifically requires reporting for grade 8 students eligible for enrollment in high school content. Additionally, NCDPI has provided a detailed view of the demographic information, including sex, race/ethnic group, migrant status, homeless status, English Learner status, Academically or Intellectually Gifted (AIG) status, and Exceptional Children (EC) status for all *eligible* students placed and not placed listed by PSU, including all 115 traditional LEAs and those charter schools who wished to participate in advanced mathematics course (AMC) enrollment reporting efforts. Note that the data tables do not represent comprehensive enrollment in advanced mathematics courses, rather, the information reflects those students who scored at the highest level on an end of grade or end of course mathematics assessment in the previous school year and are therefore automatically eligible for advanced mathematics course enrollment in the current school year, as outlined in the legislation. Finally, to protect the privacy of students and staff and to ensure compliance with federal regulation, state statutes, NC SBE policy and NCDPI standards for the public dissemination and reporting of data, various disclosure avoidance techniques are used in this report. In addition, when information about other student groups can be used in a way that might disclose the suppressed data, these data may also be suppressed. In many cases, the data being suppressed will be displayed as an “*” in a table.

At the end of the report, NCDPI provides a summary of observations drawn from the data, next steps for NCDPI to continue to improve reporting and implementation efforts, and feedback from local boards of education regarding the implementation of the legislation.

Table 1: Number and percent of students in grades 6 - 12 placed and not placed in an advanced mathematics course during the 2023-2024 school year by sex who scored at the highest level on an approved mathematics assessment in the previous school year.

<i>Placed in Course by Sex</i>	<i># of students Placed</i>	<i># of students who scored at the highest level on an approved math assessment by subgroup</i>	<i>% of students Placed</i>
Female	24,997	26,547	94%
Male	29,583	31,639	94%
Total	54,580	58,186	94%
<i>Not Placed in Course by Sex</i>	<i># of students Not Placed</i>	<i># of students who scored at the highest level on an approved math assessment by subgroup</i>	<i>% of students Not Placed</i>
Female	1,550	26,547	6%
Male	2,056	31,639	6%
Total	3,606	58,186	6%

Table 2: Number and percent of students in grades 6 - 12 placed and not placed in an advanced mathematics course during the 2023-2024 school year by grade level who scored at the highest level on an approved mathematics assessment in the previous school year.

<i>Placed in Course by Grade Level</i>	<i># of students Placed</i>	<i># of students who scored at the highest level on an approved math assessment by grade level</i>	<i>% of students Placed</i>
Grade 6	10,414	11,612	90%
Grade 7	9,497	10,234	93%
Grade 8	*	11,610	≥95%
Grade 9	9,093	9,638	94%
Grade 10	*	4,960	≥95%
Grade 11	8,086	8,515	95%
Grade 12	1,354	1,617	84%
Total	54,580	58,186	94%
<i>Not Placed in Course by Grade Level</i>	<i># of students Not Placed</i>	<i># of students who scored at the highest level on an approved math assessment by grade level</i>	<i>% of students Not Placed</i>
Grade 6	1,198	11,612	10%
Grade 7	737	10,234	7%
Grade 8	*	11,610	≤5%
Grade 9	545	9,638	6%
Grade 10	*	4,960	≤5%
Grade 11	*	8,515	≤5%
Grade 12	263	1,617	16%
Total	3,606	58,186	6%

Table 3: Number and percent of students in grades 6 - 12 placed and not placed in an advanced mathematics course during the 2023-2024 school year by ethnicity/race who scored at the highest level on an approved mathematics assessment in the previous school year.

<i>Placed in Course by Ethnicity/Race</i>	# of students Placed	# of students who scored at the highest level on an approved math assessment by subgroup	% of students Placed
American Indian or Alaska Native	198	224	88%
Asian	*	9,236	≥95%
Black or African American	3,234	3,520	92%
Hispanic or Latino	5,376	5,850	92%
Native Hawaiian/Other Pacific Islander	*	67	≥95%
Two or More	2,513	2,711	93%
White	34,215	36,578	94%
Total	54,580	58,186	94%
<i>Not Placed in Course by Ethnicity/Race</i>	# of students Not Placed	# of students who scored at the highest level on an approved math assessment by subgroup	% of students Not Placed
American Indian or Alaska Native	26	224	12%
Asian	*	9,236	≤5%
Black or African American	286	3,520	8%
Hispanic or Latino	474	5,850	8%
Native Hawaiian/Other Pacific Islander	*	67	≤5%
Two or More	198	2,711	7%
White	2,363	36,578	6%
Total	3,606	58,186	6%

Table 4: Number and percent of students in grade 8 placed and not placed in an advanced mathematics course during the 2023-2024 school year by sex who scored at the highest level on an approved mathematics assessment in the previous school year.

<i>Placed in Course by Sex</i>	<i># of students in grade 8 Placed</i>	<i># of students in grade 8 who scored at the highest level on an approved math assessment by subgroup</i>	<i>% of students in grade 8 Placed</i>
Female	*	5,286	≥95%
Male	*	6,324	≥95%
Total	*	11,610	≥95%
<i>Not Placed in Course by Sex</i>	<i># of students in grade 8 Not Placed</i>	<i># of students in grade 8 who scored at the highest level on an approved math assessment by subgroup</i>	<i>% of students in grade 8 Not Placed</i>
Female	*	5,286	≤5%
Male	*	6,324	≤5%
Total	*	11,610	≤5%

Table 5: Number and percent of students in grade 8 placed and not placed in an advanced mathematics course during the 2023-2024 school year by ethnicity/race who scored at the highest level on an approved mathematics assessment in the previous school year.

<i>Placed in Course by Ethnicity/Race</i>	<i># of students in grade 8 Placed</i>	<i># of students in grade 8 who scored at the highest level on an approved math assessment by subgroup</i>	<i>% of students in grade 8 Placed</i>
American Indian or Alaska Native	*	42	≥95%
Asian	*	2,135	≥95%
Black or African American	*	592	≥95%
Hispanic or Latino	*	1,054	≥95%
Native Hawaiian/Other Pacific Islander	*	13	≥95%
Two or More	*	520	≥95%
White	*	7,254	≥95%
Total	*	11,610	≥95%
<i>Not Placed in Course by Ethnicity/Race</i>	<i># of students in grade 8 Not Placed</i>	<i># of students who scored at the highest level on an approved math assessment by subgroup</i>	<i>% of students in grade 8 Not Placed</i>
American Indian or Alaska Native	*	42	≤5%
Asian	*	2,135	≤5%
Black or African American	*	592	≤5%
Hispanic or Latino	*	1,054	≤5%
Native Hawaiian/Other Pacific Islander	*	13	≤5%
Two or More	*	520	≤5%
White	*	7,254	≤5%
Total	*	11,610	≤5%

Table 6: Advanced courses available across PSUs for students in grades 6-12.

Course Title	
Advanced Math 6	MAT263 Brief Calculus
Advanced Math 7	MAT271 Calculus I
Middle School NC Math 1	MAT272 Calculus II
NC Math 1 Honors	MAT273 Calculus III
Middle School NC Math 2	MAT280 Linear Algebra
NC Math 2 Honors	MAT285 Differential Equations
Middle School NC Math 3	MAT141 Mathematical Concepts
NC Math 3 Honors	MAT167 Discrete Mathematics
Discrete Mathematics for Comp Sci Honors	IB Computer Science HL
NC Math 4 Honors	IB Mathematical Studies SL
Precalculus	IB Mathematics SL
AP Pre-Calculus	IB Math: Analysis and Approaches SL
AP Calculus AB	IB Math: Analysis and Approaches HL
AP Calculus BC	IB Math: Applications & Interpret. SL
AP Computer Science	IB Math: Applications & Interpret. HL
AP Statistics	University Math Course
MAT143 Quantitative Literacy	Univ 300/Higher Math Course
MAT152 Statistical Methods I	CIE Math Probability & Statistics AS
MAT171 Precalculus Algebra	CIE Math Probability & Statistics A
MAT172 Precalculus Trigonometry	

Table 7: Detailed summary by PSU of eligible students who score at the highest level on an approved math assessment in the previous school year, either placed or not placed in an advanced mathematics course. *Note: These numbers do not represent comprehensive advanced mathematics course enrollment.*

PSU	Name	Placed /Not placed	Female	Male	American Indian or Alaskan Native.	Asian	Black or African American	Hispanic or Latino	Native Hawaiian/Other Pacific Islander	Two or More	White	English Learner status	Homeless status	Migrant status	AIG status	EC status
010	Alamance-Burlington Schools	Placed	262	322	*	29	47	90	*	34	384	<10	*	*	496	<10
010	Alamance-Burlington Schools	Not placed	*	*	*	*	*	*	*	*	*	*	*	*	*	*
020	Alexander County Schools	Placed	98	90	*	<10	<10	15	*	<10	160	*	*	*	94	<10
020	Alexander County Schools	Not placed	<10	<10	*	*	*	*	*	*	<10	*	*	*	<10	*
030	Alleghany County Schools	Placed	17	15	*	*	*	<10	*	*	23	<10	*	*	20	*
030	Alleghany County Schools	Not placed	<10	<10	*	*	*	<10	*	*	<10	*	*	*	<10	*
040	Anson County Schools	Placed	<10	<10	*	<10	<10	*	*	<10	<10	*	*	*	<10	*
040	Anson County Schools	Not placed	<10	<10	*	*	<10	*	*	<10	<10	*	*	*	<10	*
050	Ashe County Schools	Placed	55	72	*	<10	<10	<10	*	<10	110	*	*	*	81	<10

050	Ashe County Schools	Not placed	<10	<10	*	*	*	*	*	*	<10	*	*	*	<10	*
060	Avery County Schools	Placed	18	24	*	*	*	<10	*	<10	32	<10	*	*	18	*
060	Avery County Schools	Not placed	*	<10	*	*	*	*	*	*	<10	*	*	*	*	<10
070	Beaufort County Schools	Placed	91	110	<10	<10	<10	42	*	<10	139	<10	*	*	151	<10
070	Beaufort County Schools	Not placed	<10	<10	*	*	*	*	*	<10	<10	*	*	*	<10	*
080	Bertie County Schools	Placed	<10	<10	*	<10	<10	<10	*	*	*	*	*	*	<10	<10
080	Bertie County Schools	Not placed	<10	<10	*	<10	<10	<10	*	*	*	*	*	<10	*	*
090	Bladen County Schools	Placed	16	14	<10	<10	<10	<10	*	<10	14	<10	*	*	14	*
090	Bladen County Schools	Not placed	<10	<10	*	*	*	<10	*	*	<10	*	*	*	<10	*
100	Brunswick County Schools	Placed	191	242	<10	13	23	50	*	24	322	<10	*	<10	303	<10
100	Brunswick County Schools	Not placed	<10	<10	*	*	*	<10	*	<10	<10	*	*	*	<10	*
110	Buncombe County Schools	Placed	419	514	<10	26	<10	90	<10	22	783	<10	*	<10	652	<10
110	Buncombe County Schools	Not placed	18	20	*	*	*	<10	*	<10	32	<10	*	*	21	<10
111	Asheville City Schools	Placed	39	49	*	<10	<10	<10	*	<10	74	*	*	*	65	*

111	Asheville City Schools	Not placed	20	20	*	*	*	<10	*	<10	34	*	*	*	33	*
120	Burke County Schools	Placed	161	255	*	28	<10	52	*	16	319	<10	*	*	378	<10
120	Burke County Schools	Not placed	<10	<10	*	<10	*	*	*	<10	<10	*	*	*	<10	*
130	Cabarrus County Schools	Placed	1134	1254	<10	811	180	163	<10	104	1113	16	*	*	1362	26
130	Cabarrus County Schools	Not placed	30	44	*	<10	12	<10	*	<10	44	*	*	*	29	<10
132	Kannapolis City Schools	Placed	26	46	*	*	<10	25	*	<10	37	*	*	*	66	*
132	Kannapolis City Schools	Not placed	*	<10	*	*	*	*	*	*	<10	*	*	*	<10	*
140	Caldwell County Schools	Placed	101	144	*	<10	<10	23	*	<10	207	*	*	*	183	<10
140	Caldwell County Schools	Not placed	13	18	*	*	<10	<10	*	<10	24	*	*	*	22	*
150	Camden County Schools	Placed	39	38	*	<10	<10	<10	*	<10	61	*	*	*	41	<10
150	Camden County Schools	Not placed	<10	<10	*	*	*	<10	*	<10	14	*	*	*	<10	*
160	Carteret County Public Schools	Placed	213	265	*	<10	<10	25	<10	17	421	*	*	*	309	<10
160	Carteret County Public Schools	Not placed	<10	15	*	<10	*	<10	*	*	17	*	*	*	<10	*
170	Caswell County Schools	Placed	<10	<10	*	*	<10	*	*	<10	<10	*	*	*	<10	*

170	Caswell County Schools	Not placed	<10	<10	*	*	<10	<10	*	*	<10	*	*	*	<10	*
180	Catawba County Schools	Placed	329	435	*	56	<10	91	*	39	573	*	*	*	352	<10
180	Catawba County Schools	Not placed	*	*	*	*	*	*	*	*	*	*	*	*	*	*
181	Hickory City Schools	Placed	62	64	*	<10	<10	24	*	<10	86	<10	<10	*	91	*
181	Hickory City Schools	Not placed	*	*	*	*	*	*	*	*	*	*	*	*	*	*
182	Newton Conover City Schools	Placed	45	66	*	<10	<10	26	*	<10	70	<10	*	*	69	*
182	Newton Conover City Schools	Not placed	*	<10	*	*	*	*	*	*	<10	*	*	*	<10	*
190	Chatham County Schools	Placed	155	212	*	12	13	54	*	17	271	<10	*	*	317	<10
190	Chatham County Schools	Not placed	<10	<10	*	*	*	<10	*	*	14	*	*	*	<10	*
200	Cherokee County Schools	Placed	27	25	*	*	*	<10	*	<10	47	*	*	*	31	<10
200	Cherokee County Schools	Not placed	11	<10	*	*	*	<10	*	*	15	*	*	*	11	<10
210	Edenton-Chowan Schools	Placed	18	16	*	<10	<10	<10	*	<10	22	<10	*	*	20	<10
210	Edenton-Chowan Schools	Not placed	<10	*	*	*	<10	*	*	*	*	*	*	*	*	*
220	Clay County Schools	Placed	<10	<10	*	*	*	<10	*	*	<10	*	*	*	<10	*
220	Clay County Schools	Not placed	<10	16	<10	*	*	*	*	<10	17	*	*	*	12	*

230	Cleveland County Schools	Placed	189	239	*	<10	30	35	*	18	335	<10	*	*	316	<10
230	Cleveland County Schools	Not placed	17	30	*	<10	<10	<10	*	<10	30	<10	*	*	21	*
240	Columbus County Schools	Placed	18	17	*	*	<10	<10	*	*	29	*	*	*	23	*
240	Columbus County Schools	Not placed	17	17	<10	*	<10	<10	*	*	19	<10	*	*	24	*
241	Whiteville City Schools	Placed	<10	13	*	<10	<10	<10	*	<10	13	<10	*	*	<10	*
241	Whiteville City Schools	Not placed	11	17	*	*	<10	<10	*	<10	16	*	*	*	22	<10
250	Craven County Schools	Placed	140	149	<10	20	16	31	*	23	198	<10	<10	*	193	<10
250	Craven County Schools	Not placed	<10	<10	*	*	<10	<10	*	<10	<10	*	*	*	<10	*
260	Cumberland County Schools	Placed	525	538	11	105	207	157	<10	108	468	<10	*	*	796	18
260	Cumberland County Schools	Not placed	<10	<10	*	*	*	<10	*	*	<10	*	*	*	*	*
270	Currituck County Schools	Placed	44	69	<10	<10	*	<10	<10	<10	98	*	*	*	82	<10
270	Currituck County Schools	Not placed	<10	<10	*	*	*	*	*	<10	<10	*	*	*	<10	*
280	Dare County Schools	Placed	100	122	*	<10	*	21	*	<10	191	*	*	*	160	<10
280	Dare County Schools	Not placed	12	15	*	*	*	<10	*	<10	23	*	*	*	11	*

290	Davidson County Schools	Placed	293	366	*	21	14	70	*	18	536	<10	*	*	480	<10
290	Davidson County Schools	Not placed	<10	<10	*	*	<10	<10	*	*	<10	*	*	*	<10	*
291	Lexington City Schools	Placed	<10	<10	*	<10	<10	<10	*	<10	<10	*	*	*	16	<10
291	Lexington City Schools	Not placed	<10	<10	*	*	<10	<10	*	<10	<10	*	*	*	11	*
292	Thomasville City Schools	Placed	<10	14	<10	*	<10	<10	*	<10	<10	*	*	*	21	*
292	Thomasville City Schools	Not placed	*	<10	*	*	*	<10	*	*	*	*	*	*	*	*
300	Davie County Schools	Placed	159	185	*	<10	<10	24	*	12	294	*	*	*	243	<10
300	Davie County Schools	Not placed	11	<10	*	<10	<10	<10	*	<10	15	*	*	*	<10	*
310	Duplin County Schools	Placed	62	58	<10	<10	<10	47	*	<10	64	<10	<10	*	72	<10
310	Duplin County Schools	Not placed	<10	<10	*	*	*	<10	*	*	<10	*	*	*	<10	*
320	Durham Public Schools	Placed	446	523	<10	44	127	140	*	78	578	<10	*	*	801	21
320	Durham Public Schools	Not placed	*	*	*	*	*	*	*	*	*	*	*	*	*	*
330	Edgecombe County Public Schools	Placed	11	12	*	*	<10	<10	*	*	<10	<10	*	*	12	*
330	Edgecombe County Public Schools	Not placed	<10	<10	*	*	<10	<10	*	<10	<10	*	*	*	<10	<10

340	Winston Salem / Forsyth County Schools	Placed	846	975	<10	173	115	212	<10	90	1229	<10	*	*	1319	20
340	Winston Salem / Forsyth County Schools	Not placed	*	*	*	*	*	*	*	*	*	*	*	*	*	*
350	Franklin County Schools	Placed	32	45	*	<10	<10	14	*	<10	52	*	*	*	49	<10
350	Franklin County Schools	Not placed	22	32	*	*	<10	<10	*	<10	35	<10	*	*	51	<10
360	Gaston County Schools	Placed	530	557	*	54	92	135	<10	56	749	<10	*	*	680	12
360	Gaston County Schools	Not placed	12	17	<10	<10	<10	<10	*	*	18	*	*	*	<10	<10
370	Gates County Schools	Placed	<10	<10	*	*	<10	<10	*	<10	<10	*	*	*	11	<10
370	Gates County Schools	Not placed	*	*	*	*	*	*	*	*	*	*	*	*	*	*
380	Graham County Schools	Placed	<10	<10	*	*	*	*	*	*	<10	*	*	*	<10	*
380	Graham County Schools	Not placed	*	*	*	*	*	*	*	*	*	*	*	*	*	*
390	Granville County Schools	Placed	31	39	*	<10	<10	14	*	<10	39	*	*	*	58	<10
390	Granville County Schools	Not placed	<10	*	*	*	<10	*	*	*	*	*	*	*	<10	*
400	Greene County Schools	Placed	12	18	*	*	<10	11	*	<10	15	*	*	*	23	*
400	Greene County Schools	Not placed	*	*	*	*	*	*	*	*	*	*	*	*	*	*

410	Guilford County Schools	Placed	972	1099	<10	408	256	170	<10	111	1122	15	*	*	1716	42
410	Guilford County Schools	Not placed	18	19	*	<10	<10	<10	*	<10	21	*	*	*	21	*
420	Halifax County Schools	Placed	<10	*	*	*	*	*	*	<10	*	*	*	*	*	*
420	Halifax County Schools	Not placed	<10	<10	*	*	<10	*	*	*	*	*	*	*	*	*
421	Roanoke Rapids City Schools	Placed	29	24	<10	<10	<10	<10	*	<10	36	*	*	*	36	<10
421	Roanoke Rapids City Schools	Not placed	*	*	*	*	*	*	*	*	*	*	*	*	*	*
422	Weldon City Schools	Placed	*	<10	*	*	<10	*	*	<10	*	*	*	*	<10	*
422	Weldon City Schools	Not placed	*	*	*	*	*	*	*	*	*	*	*	*	*	*
430	Harnett County Schools	Placed	140	183	<10	<10	28	64	<10	21	196	*	*	<10	231	<10
430	Harnett County Schools	Not placed	18	17	*	<10	<10	14	*	<10	<10	*	*	*	20	*
440	Haywood County Schools	Placed	133	156	*	<10	<10	19	*	<10	256	<10	<10	*	168	<10
440	Haywood County Schools	Not placed	<10	11	*	*	*	<10	*	*	17	<10	*	*	<10	*
450	Henderson County Schools	Placed	175	198	<10	13	<10	49	*	11	295	<10	*	*	167	<10
450	Henderson County Schools	Not placed	102	138	*	<10	<10	34	*	<10	187	<10	*	*	155	<10
460	Hertford County Schools	Placed	<10	<10	*	*	<10	<10	*	*	*	*	*	*	<10	*

460	Hertford County Schools	Not placed	*	<10	*	*	*	*	*	*	<10	*	*	*	<10	*
470	Hoke County Schools	Placed	59	77	<10	<10	37	36	*	13	41	*	*	*	92	<10
470	Hoke County Schools	Not placed	*	*	*	*	*	*	*	*	*	*	*	*	*	*
480	Hyde County Schools	Placed	*	<10	*	*	*	<10	*	*	<10	*	*	*	<10	*
480	Hyde County Schools	Not placed	<10	<10	*	*	*	<10	*	*	<10	*	*	*	<10	<10
490	Iredell-Statesville Schools	Placed	366	450	*	77	20	50	<10	47	621	<10	*	*	534	<10
490	Iredell-Statesville Schools	Not placed	48	77	*	<10	<10	18	*	<10	94	<10	*	*	83	<10
491	Mooresville Graded School District	Placed	126	134	*	<10	13	18	*	17	205	<10	*	*	204	<10
491	Mooresville Graded School District	Not placed	<10	<10	*	*	<10	*	*	<10	17	*	*	*	<10	<10
500	Jackson County Public Schools	Placed	37	47	*	<10	<10	<10	*	<10	70	<10	*	*	59	<10
500	Jackson County Public Schools	Not placed	<10	<10	*	*	*	<10	*	*	<10	*	*	*	<10	*
510	Johnston County Public Schools	Placed	367	534	<10	27	59	135	<10	28	646	<10	*	<10	659	15
510	Johnston County Public Schools	Not placed	28	29	*	<10	<10	21	*	*	32	*	*	<10	43	<10
520	Jones County Schools	Placed	<10	<10	*	*	<10	<10	*	*	<10	*	*	*	<10	<10

520	Jones County Schools	Not placed	*	*	*	*	*	*	*	*	*	*	*	*	*	*
530	Lee County Schools	Placed	73	83	*	<10	<10	57	*	<10	82	<10	*	*	131	*
530	Lee County Schools	Not placed	<10	<10	*	*	<10	<10	*	<10	<10	*	*	*	<10	*
540	Lenoir County Public Schools	Placed	37	34	*	<10	<10	11	*	*	54	*	*	<10	67	*
540	Lenoir County Public Schools	Not placed	<10	11	*	*	<10	<10	*	*	14	*	*	*	17	<10
550	Lincoln County Schools	Placed	257	285	*	14	<10	40	*	14	466	<10	<10	*	389	<10
550	Lincoln County Schools	Not placed	<10	<10	*	*	*	<10	*	*	<10	<10	*	*	<10	*
560	Macon County Schools	Placed	50	62	*	<10	*	16	*	<10	89	*	*	*	58	*
560	Macon County Schools	Not placed	<10	*	*	*	*	*	*	*	<10	*	*	*	*	*
570	Madison County Schools	Placed	24	43	*	*	*	<10	*	*	65	*	*	*	41	<10
570	Madison County Schools	Not placed	<10	<10	*	*	*	*	*	*	<10	*	*	*	<10	*
580	Martin County Schools	Placed	<10	<10	<10	<10	<10	<10	*	<10	<10	*	*	*	12	*
580	Martin County Schools	Not placed	*	*	*	*	*	*	*	*	*	*	*	*	*	*
590	McDowell County Schools	Placed	70	80	<10	<10	<10	14	*	<10	128	*	*	*	126	<10
590	McDowell County Schools	Not placed	<10	<10	*	*	*	<10	*	*	<10	*	*	*	<10	*

600	Charlotte-Mecklenburg Schools	Placed	2873	3367	<10	1488	590	703	<10	208	3237	113	*	*	3831	57
600	Charlotte-Mecklenburg Schools	Not placed	104	131	<10	17	39	51	*	<10	119	<10	*	*	108	<10
610	Mitchell County Schools	Placed	<10	14	*	<10	*	*	*	*	23	*	*	*	16	<10
610	Mitchell County Schools	Not placed	*	*	*	*	*	*	*	*	*	*	*	*	*	*
620	Montgomery County Schools	Placed	21	46	*	<10	<10	27	*	<10	30	*	*	*	34	*
620	Montgomery County Schools	Not placed	<10	<10	*	<10	*	<10	*	*	<10	<10	*	*	<10	*
630	Moore County Schools	Placed	222	274	<10	14	<10	41	*	29	403	*	*	*	321	<10
630	Moore County Schools	Not placed	<10	11	*	*	*	<10	*	*	<10	*	*	*	<10	*
640	Nash County Public Schools	Placed	45	73	*	<10	19	17	*	<10	70	*	*	<10	92	*
640	Nash County Public Schools	Not placed	<10	<10	*	*	<10	<10	*	<10	<10	*	*	*	<10	*
650	New Hanover County Schools	Placed	522	667	<10	47	23	83	<10	57	968	<10	*	*	861	21
650	New Hanover County Schools	Not placed	16	15	*	*	<10	<10	*	<10	24	*	*	*	13	*
660	Northampton County Schools	Placed	<10	<10	*	<10	<10	<10	*	*	<10	*	*	*	<10	*
660	Northampton County Schools	Not placed	<10	*	*	*	<10	*	*	*	*	*	*	*	*	*

670	Onslow County Schools	Placed	264	310	<10	15	35	76	<10	41	405	<10	*	*	417	13
670	Onslow County Schools	Not placed	27	47	*	<10	<10	11	*	<10	52	*	*	*	41	*
680	Orange County Schools	Placed	134	171	*	<10	14	26	*	15	243	<10	*	*	231	11
680	Orange County Schools	Not placed	<10	<10	*	*	*	*	*	*	<10	*	*	*	<10	*
681	Chapel Hill-Carrboro City Schools	Placed	551	637	<10	277	28	71	*	112	699	<10	*	*	930	15
681	Chapel Hill-Carrboro City Schools	Not placed	<10	<10	*	<10	*	<10	*	*	<10	*	*	*	<10	*
690	Pamlico County Schools	Placed	<10	<10	*	*	<10	<10	*	*	15	*	*	*	<10	*
690	Pamlico County Schools	Not placed	*	*	*	*	*	*	*	*	*	*	*	*	*	*
700	Elizabeth City-Pasquotank Public Schools	Placed	20	17	*	<10	<10	<10	*	*	24	*	<10	*	28	<10
700	Elizabeth City-Pasquotank Public Schools	Not placed	*	<10	*	*	*	*	*	<10	<10	*	*	*	*	*
710	Pender County Schools	Placed	183	253	*	<10	<10	37	*	25	366	<10	*	*	292	<10
710	Pender County Schools	Not placed	<10	25	*	*	*	<10	<10	<10	30	*	*	*	<10	*
720	Perquimans County Schools	Placed	30	20	*	*	*	*	*	<10	47	*	*	*	48	*
720	Perquimans County Schools	Not placed	*	*	*	*	*	*	*	*	*	*	*	*	*	*

730	Person County Schools	Placed	38	38	*	<10	<10	<10	*	<10	57	*	*	*	58	<10
730	Person County Schools	Not placed	<10	12	*	*	<10	<10	*	<10	14	*	*	*	<10	*
740	Pitt County Schools	Placed	512	526	<10	76	106	109	<10	50	694	<10	*	*	814	14
740	Pitt County Schools	Not placed	<10	13	*	*	<10	<10	*	<10	11	<10	*	*	<10	<10
750	Polk County Schools	Placed	41	60	*	<10	<10	13	*	<10	84	*	*	*	76	<10
750	Polk County Schools	Not placed	*	*	*	*	*	*	*	*	*	*	*	*	*	*
760	Randolph County School System	Placed	153	186	<10	16	<10	45	<10	<10	258	*	*	*	272	<10
760	Randolph County School System	Not placed	<10	11	<10	<10	*	<10	*	<10	<10	<10	*	*	11	*
761	Asheboro City Schools	Placed	17	29	*	<10	<10	14	*	*	25	*	*	*	35	*
761	Asheboro City Schools	Not placed	12	15	*	<10	<10	<10	*	<10	18	*	*	*	24	*
770	Richmond County Schools	Placed	47	65	<10	<10	12	21	*	<10	70	*	*	*	97	<10
770	Richmond County Schools	Not placed	<10	<10	*	*	<10	<10	*	*	<10	*	*	*	<10	*
780	Public Schools of Robeson County	Placed	99	73	78	<10	<10	30	*	14	36	<10	*	*	114	*
780	Public Schools of Robeson County	Not placed	<10	13	<10	<10	<10	<10	*	<10	<10	*	*	*	11	<10
790	Rockingham County Schools	Placed	68	107	*	<10	<10	25	*	<10	133	<10	*	*	167	<10

790	Rockingham County Schools	Not placed	47	42	*	<10	<10	<10	*	<10	71	<10	*	*	69	*
800	Rowan-Salisbury Schools	Placed	72	118	<10	<10	<10	21	*	12	146	*	*	*	139	<10
800	Rowan-Salisbury Schools	Not placed	<10	<10	*	*	*	<10	*	<10	11	*	*	*	<10	*
810	Rutherford County Schools	Placed	61	71	*	<10	<10	<10	*	<10	114	*	*	*	120	<10
810	Rutherford County Schools	Not placed	<10	<10	*	*	*	*	*	*	<10	*	*	*	<10	*
820	Sampson County Schools	Placed	90	104	<10	<10	<10	68	*	<10	108	<10	*	<10	134	<10
820	Sampson County Schools	Not placed	<10	<10	*	*	*	<10	*	<10	<10	*	*	*	<10	*
821	Clinton City Schools	Placed	30	35	<10	<10	<10	18	*	<10	34	<10	*	*	47	*
821	Clinton City Schools	Not placed	<10	<10	*	*	*	<10	*	*	<10	*	*	*	<10	*
830	Scotland County Schools	Placed	13	25	<10	<10	<10	<10	*	<10	15	*	*	*	31	*
830	Scotland County Schools	Not placed	13	23	<10	<10	<10	<10	*	<10	19	<10	*	*	29	*
840	Stanly County Schools	Placed	71	66	*	<10	<10	<10	*	<10	112	*	*	*	107	<10
840	Stanly County Schools	Not placed	40	57	<10	<10	<10	<10	*	<10	72	<10	*	*	76	<10
850	Stokes County Schools	Placed	31	52	<10	*	*	<10	*	<10	74	*	*	*	56	<10
850	Stokes County Schools	Not placed	17	28	*	*	*	<10	*	<10	42	*	*	*	31	<10

860	Surry County Schools	Placed	115	153	*	<10	<10	49	*	<10	205	*	*	*	139	<10
860	Surry County Schools	Not placed	<10	<10	*	*	*	<10	*	*	<10	*	*	*	<10	*
861	Elkin City Schools	Placed	27	27	*	*	*	<10	*	<10	47	*	*	*	32	*
861	Elkin City Schools	Not placed	*	*	*	*	*	*	*	*	*	*	*	*	*	*
862	Mount Airy City Schools	Placed	31	45	*	<10	<10	12	*	<10	55	<10	*	*	54	*
862	Mount Airy City Schools	Not placed	<10	<10	*	*	*	*	*	*	<10	*	*	*	*	*
870	Swain County Schools	Placed	27	29	<10	<10	*	<10	*	*	47	*	*	*	38	<10
870	Swain County Schools	Not placed	*	*	*	*	*	*	*	*	*	*	*	*	*	*
880	Transylvania County Schools	Placed	43	56	*	<10	<10	<10	*	<10	87	*	*	*	66	<10
880	Transylvania County Schools	Not placed	<10	17	<10	*	*	<10	<10	<10	22	*	*	*	15	<10
890	Tyrrell County Schools	Placed	*	<10	*	*	*	<10	*	*	<10	*	*	*	<10	<10
890	Tyrrell County Schools	Not placed	*	*	*	*	*	*	*	*	*	*	*	*	*	*
900	Union County Public Schools	Placed	1785	2028	<10	886	156	317	<10	175	2270	21	*	*	2500	23
900	Union County Public Schools	Not placed	76	91	*	12	<10	22	*	<10	116	*	*	*	60	<10
910	Vance County Schools	Placed	24	30	*	<10	21	17	*	*	11	<10	*	*	30	<10

910	Vance County Schools	Not placed	*	*	*	*	*	*	*	*	*	*	*	*	*	*
920	Wake County Schools	Placed	4944	5886	20	3542	465	600	12	388	5803	110	*	*	7604	189
920	Wake County Schools	Not placed	31	34	<10	<10	<10	<10	*	*	44	<10	*	*	14	<10
930	Warren County Schools	Placed	<10	<10	*	*	<10	<10	*	*	<10	<10	*	*	<10	*
930	Warren County Schools	Not placed	<10	<10	*	*	<10	*	*	*	<10	*	*	*	<10	*
940	Washington County Schools	Placed	<10	<10	*	<10	<10	<10	*	*	<10	<10	*	*	<10	*
940	Washington County Schools	Not placed	*	<10	*	*	<10	*	*	*	*	*	*	*	*	*
950	Watauga County Schools	Placed	175	188	*	<10	<10	22	*	14	317	<10	*	*	227	<10
950	Watauga County Schools	Not placed	<10	<10	*	<10	*	*	*	*	15	*	*	*	<10	<10
960	Wayne County Public Schools	Placed	149	195	*	17	40	102	<10	21	163	<10	*	*	219	<10
960	Wayne County Public Schools	Not placed	<10	<10	*	*	<10	*	*	*	<10	*	*	*	<10	*
970	Wilkes County Schools	Placed	127	155	*	<10	<10	36	*	<10	232	*	*	*	206	<10
970	Wilkes County Schools	Not placed	<10	<10	*	*	*	<10	*	*	<10	*	*	*	<10	*
980	Wilson County Schools	Placed	91	125	<10	<10	28	59	<10	<10	112	*	*	*	149	<10

980	Wilson County Schools	Not placed	<10	<10	*	*	<10	<10	*	*	<10	*	*	*	<10	*
990	Yadkin County Schools	Placed	56	67	*	<10	<10	19	*	<10	100	*	*	*	84	<10
990	Yadkin County Schools	Not placed	14	16	*	*	<10	<10	*	*	22	<10	*	*	19	*
995	Yancey County Schools	Placed	34	35	<10	*	*	<10	*	<10	61	*	*	*	39	<10
995	Yancey County Schools	Not placed	<10	<10	<10	*	*	<10	*	<10	<10	*	*	*	<10	<10

Summary of Observations

G.S. 115C-81.36 became law on July 11, 2019, with an expectation for full implementation during the 2019-2020 school year. As noted above, the legislation outlined a reporting requirement to share the number and demographic information for all students scoring at the highest level on an end of grade or end of course mathematics assessment, and the same information for those eligible students who were both placed and not placed in an advanced mathematics course in the subsequent school year. The reporting requirements of the legislation were temporarily revised to respond to conditions during North Carolina's COVID-19 response. In 2020-2021 when students have returned to on-campus learning and end of grade and end of course assessments were once again available to determine which students were automatically eligible for enrollment in advanced courses, reporting for this legislation began. **As a result, the state now has two years of data available to evaluate how efforts to implement this legislation have improved over time.**

In the data set for the 2023-24 school year, the following observations are noted:

- During the 2022-23 school year, **58,186** students in grades 6-12, scored at the highest level on either an end of grade or end of course mathematics assessment. ***This is an increase of 9,032 exam scores over the previous year.*** In alignment with the legislation, these students were then automatically eligible for placement in an advanced mathematics course in the current school year. Of those eligible students:
 - **94% (54,580) are currently placed in an advanced mathematics course, and**
 - **6% (3,606) are not currently placed in an advanced mathematics course.**
 - This represents another year of increased placement in advanced mathematics courses for students who were automatically eligible as determined by the legislation. In 2021-22, 92% were placed and 8% were not placed in advanced mathematics courses. **The current data reflects a 2% increase in the number of eligible students placed in advanced mathematics courses from 21-22 to 22-23.**
- Initial data indicates an improvement in the percent of American Indian or Alaskan Native students placed in advanced mathematics courses, specifically for those in 8th grade and across all grades 6-12.
 - For American Indian or Alaska Native students in 8th grade, **95%** of eligible students are placed in an advanced mathematics course with 5% of students not placed. This represents a 2% increase from the 2022-2023 school year, and the American Indian or Alaska native 8th graders are now placed at rates more

- similar to their peers in other groups, where >95% of eligible students are placed in advanced mathematics courses.
- In grades 6-12, **88%** of American Indian or Alaska Native students are placed in an advanced mathematics course, as compared to their counterparts ranging from 92-97% placed. This is an increase of **10%** from the 2022-2023 reporting year, where 78% were placed, as compared to their peers who were placed at percentages ranging from 88-94%. (Data indicates that in the current reporting year, counterparts also saw an increase in the percentage of students placed).
 - The current year's data also shows an increase in the percent of students from the Native Hawaiian or Other Pacific Islander population placed in advanced mathematics courses, for not only those in 8th grade, but also across all grades 6-12.
 - In grade 8, **100%** of this student group are currently placed in advanced mathematics courses, which is an improvement of 8% over the previous year's data.
 - This group has also improved from 92% of students placed across all grades 6-12, to now showing **>95%** of eligible students across all grades are placed in advanced courses.
 - When examining the data by sex, the data indicates similar positive outcomes:
 - The percent of males and females placed in advanced mathematics courses were similar in grade 8 – with **>95%** of females placed and **>95%** of males placed in advanced mathematics courses. This represents a 1% increase for females, while the males remain steady in 8th grade.
 - Across grades 6-12, the current data shows that **94%** of both male and female students are placed in advanced mathematics courses, which is an increase of 2% for females and 3% for males from the previous year.
 - A major focus of the legislation was the guaranteed opportunity for current 8th grade students who scored at the highest level in the previous school year (on the 7th grade end of grade mathematics assessment) to be automatically enrolled in a high school mathematics course during 8th grade. The initial data indicates that the overall number and percentage of students placed in advanced mathematics courses is again **>95%**, a 1% increase over the 2022-2023 reporting year.
 - In previous report years, the data indicated a higher likelihood of students across all race/ethnic groups not being placed in advanced courses at grades 6 and/or 7. For example, in 2020-21, 53% of LEA's reported offering advanced courses in grades 6 and 7. In the current year's data, the percentage of students in grade 6 placed in an advanced mathematics course is now 90%, and 93% of eligible students in 7th grade are now placed in an advanced mathematics course. This is important to note.

- In each of the prior years of reporting, NCDPI has noted inconsistencies in the placement of students in advanced math course offerings throughout the high school years. In the current year, 94 to 97% of the students in grades 9 - 11 are placed in advanced mathematics courses. The percent of eligible 12th grade students placed in advanced courses is currently 84%, which shows a consistent trend for eligible students enrolled in advanced mathematics courses during 12th grade. This could be limited due to less seniors taking advanced math courses because they may have met the requirements already.
- In grades 9-12, districts are offering various advanced mathematics courses to meet student needs, interests, and post-secondary plans:
 - Courses are offered in a traditional face to face setting, as well as provided in an online learning environment by the PSU or external partner;
 - Schools are offering a variety of mathematics courses, including Honors, University, Community College, Advanced Placement, International Baccalaureate, and Cambridge;
 - Students are currently enrolled in thirty-one (31) of the forty-three (43) advanced courses available; with middle school students enrolled in six of the seven available courses, including Pre-Calculus.

Feedback from LEAs throughout this year’s reporting process and efforts to implement the legislation:

1. Many LEAs shared that the reporting of this data has opened doors to collaborative conversation about policy and practices regarding subject acceleration for students and factors to consider to ensure students’ successful participation in advanced mathematics courses.
2. Several LEAs have expressed concerns about the number of students in grades 11-13 who may have scored at the highest level on the NC Math 3 end of course mathematics assessment and who are currently not enrolled in an advanced course. LEA personnel believe this happens because either the students have met the graduation requirements in mathematics already, and students choose to enroll in other content area courses or the students have chosen to enroll in a dual enrollment course offering – and those may not be scheduled at the time of the reporting. So, LEAs would like the opportunity to somehow share documentation to note when students are not being missed, but rather, are otherwise enrolled.

Next Steps for NCDPI:

- NCDPI will continue to analyze and evaluate the composite and disaggregated data from this report to determine what, if any, trends might be seen across each region, and what actionable findings might be gleaned from the data.
 - Currently, 47% of LEAs are successful in placing 95-100% of eligible students into advanced courses, while only 8% of LEAs are placing 50% or fewer of eligible students into advanced courses.
 - Drilling into this data further, the NCDPI team will share the report data with the Regional Directors from each of the state's education regions, to consider trends across the region, facilitate the sharing of best practices, and determine what additional support may be necessary to continue to increase the number and percentage of eligible students placed in advanced mathematics courses.
- In addition, NCDPI will continue to provide professional learning opportunities to examine mindsets, policies and practices focused around advanced mathematics opportunities and acceleration as a strategy to meet student needs.

Please contact Sneha Shah-Coltane, Director of Advanced Learning and Gifted Education, at sneha.shahcoltrane@dpi.nc.gov, with issues or questions.