



**NORTH CAROLINA**  
State Board of Education  
Department of Public Instruction

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# Report to the North Carolina General Assembly

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Advanced Courses in Mathematics

*G.S. 115C-81.36*

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**Date Due: December 15, 2021**  
DPI Chronological Schedule, 2021-2022

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Thomas Tomberlin, Director of Educator Recruitment and Support, NCDPI  
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## 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. When advanced courses are 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. For example, 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 in grades six and higher who were *eligible* for advanced courses from the NC Student Information System (SIS) for all Local Education Agencies (LEAs) and three charter schools choosing to participate in the reporting process (n=119). To support this data collection, a new report was developed within the PowerSchool system to allow LEAs and charter schools the opportunity to review and verify the data contained in the report, and then also submit data corrections for any students deemed to be either missing from the report, or erroneously reported as not placed in an advanced mathematics course.

The data tables below respond to the legislated requirements, documenting the *eligible* students who were either *placed or not placed*, by sex and then by ethnicity/race. 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. 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, and are therefore eligible for advanced mathematics course enrollment as outlined in the legislation.

At the end of the report, NCDPI provides conclusion statements drawn from the data.

**Table 1: Number and percent of students in grades 6 - 13 placed and not placed in an advanced mathematics course during the 2021-2022 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	12,398	13,446	92%
Male	14,177	15,633	91%
<b>Total</b>	<b>26,575</b>	<b>29,079</b>	<b>91%</b>

  

<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	1,048	13,446	8%
Male	1,456	15,633	9%
<b>Total</b>	<b>2,504</b>	<b>29,079</b>	<b>9%</b>

**Table 2: Number and percent of students in grades 6 - 13 placed and not placed in an advanced mathematics course during the 2021-2022 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 Placed</i>	<i># of students who scored at the highest level on an approved math assessment by subgroup</i>	<i>% of students Placed</i>
American Indian or Alaska Native	64	79	81%
Asian	4,847	5,136	94%

Black or African American	1,177	1,323	89%
Hispanic or Latino	2,115	2,406	88%
Native Hawaiian/Other Pacific Islander	36	39	92%
Two or More	932	1,047	89%
White	17,404	19,049	91%
<b>Total</b>	<b>26,575</b>	<b>29,079</b>	<b>91%</b>
<i>Not Placed in Course by Ethnicity/Race</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>
American Indian or Alaska Native	15	79	19%
Asian	289	5,136	6%
Black or African American	146	1,323	11%
Hispanic or Latino	291	2,406	12%
Native Hawaiian/Other Pacific Islander	<10	39	8%
Two or More	115	1,047	11%
White	1,645	19,049	9%
<b>Total</b>	<b>2,504</b>	<b>29,079</b>	<b>9%</b>

**Table 3: Number and percent of students in grade 8 placed and not placed in an advanced mathematics course during the 2021-2022 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	2,718	2,761	98%
Male	3,131	3,223	97%
<b>Total</b>	<b>5,849</b>	<b>5,984</b>	<b>98%</b>

<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	43	2,761	2%
Male	92	3,223	3%
<b>Total</b>	<b>135</b>	<b>5,984</b>	<b>2%</b>

**Table 4: Number and percent of students in grade 8 placed and not placed in an advanced mathematics course during the 2021-2022 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	17	19	89%
Asian	1,139	1,192	96%
Black or African American	252	260	97%
Hispanic or Latino	437	451	97%
Native Hawaiian/Other Pacific Islander	<10	<10	100%
Two or More	210	214	98%
White	3,787	3,841	99%
<b>Total</b>	<b>5,849</b>	<b>5,984</b>	<b>98%</b>

<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	<10	19	11%
Asian	53	1,192	4%
Black or African American	<10	260	3%
Hispanic or Latino	14	451	3%
Native Hawaiian/Other Pacific	*	<10	0%

Islander			
Two or More	<10	214	2%
White	54	3,841	1%
<b>Total</b>	<b>135</b>	<b>5,984</b>	<b>2%</b>

**Table 5: Advanced courses available across PSUs for students in grades 6-13.**

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
Pre-Calculus	IB Mathematical Studies SL
NC Math 4 Honors	IB Mathematics SL
AP Calculus AB	IB Math: Analysis and Approaches SL
AP Calculus BC	IB Math: Analysis and Approaches HL
AP Computer Science	IB Math: Applications & Interpret. SL
AP Statistics	IB Math: Applications & Interpret. HL
MAT143 Quantitative Literacy	University Math Course
MAT152 Statistical Methods I	Univ 300/Higher Math Course
MAT171 Precalculus Algebra	CIE Math Probability & Statistics AS
MAT172 Precalculus Trigonometry	CIE Math Probability & Statistics A

**Table 6: 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	PSU Name	Placed/ Not Placed	Female	Male	Asian	Black or African American	Hispanic or Latino	American Indian or Alaska Native	Two or More	Native Hawaiian/ Other Pacific Islander	White	English Language Status	Homeless Status	Migrant Status	AIG Status	EC Status
010	Alamance-Burlington Schools	Placed	109	127	16	11	31	*	<10	*	169	*	*	*	212	29
010	Alamance-Burlington Schools	Not Placed	<10	<10	*	<10	<10	*	<10	*	<10	*	*	*	<10	<10
020	Alexander County Schools	Placed	32	27	<10	*	<10	*	<10	*	51	*	*	*	44	<10
020	Alexander County Schools	Not Placed	18	21	<10	<10	<10	*	<10	*	32	*	*	*	28	<10
030	Alleghany County Schools	Placed	<10	<10	*	*	<10	*	*	*	10	*	*	*	<10	*
030	Alleghany County Schools	Not Placed	<10	<10	*	*	*	*	*	*	<10	*	*	*	*	*
040	Anson County Schools	Placed	<10	*	<10	*	*	*	<10	*	<10	*	*	*	<10	<10
040	Anson County Schools	Not Placed	*	*	*	*	*	*	*	*	*	*	*	*	*	*
050	Ashe County Schools	Placed	30	47	<10	*	<10	*	<10	*	71	*	*	*	62	<10
050	Ashe County Schools	Not Placed	<10	<10	*	*	*	*	*	*	<10	*	*	*	<10	<10
761	Asheboro City Schools	Placed	19	25	<10	<10	13	*	<10	*	25	*	*	*	37	<10
761	Asheboro City Schools	Not Placed	<10	*	*	*	*	*	*	*	*	*	*	*	*	*
111	Asheville City Schools	Placed	10	22	<10	*	*	*	<10	*	26	*	*	*	27	*
111	Asheville City Schools	Not Placed	12	<10	*	*	*	*	*	*	18	*	*	*	17	<10

\*In accordance with FERPA guidelines, individual student counts less than 10 are displayed as <10, individual counts of zero are denoted with an \*.



PSU	PSU Name	Placed/ Not Placed	Female	Male	Asian	Black or African American	Hispanic or Latino	American Indian or Alaska Native	Two or More	Native Hawaiian/ Other Pacific Islander	White	English Language Status	Homeless Status	Migrant Status	AIG Status	EC Status
060	Avery County Schools	Placed	<10	10	<10	*	<10	*	*	*	15	*	*	*	11	<10
060	Avery County Schools	Not Placed	12	12	<10	*	<10	*	<10	*	17	*	*	*	12	<10
070	Beaufort County Schools	Placed	39	57	<10	<10	16	*	<10	*	73	*	*	*	88	12
070	Beaufort County Schools	Not Placed	*	*	*	*	*	*	*	*	*	*	*	*	*	*
080	Bertie County Schools	Placed	<10	<10	*	<10	*	*	*	*	<10	*	*	*	<10	*
080	Bertie County Schools	Not Placed	*	*	*	*	*	*	*	*	*	*	*	*	*	*
090	Bladen County Schools	Placed	<10	<10	*	*	<10	*	*	*	<10	*	*	*	<10	<10
090	Bladen County Schools	Not Placed	<10	<10	*	*	<10	*	<10	*	<10	*	*	*	<10	<10
100	Brunswick County Schools	Placed	93	150	<10	10	23	*	12	*	190	*	*	*	182	22
100	Brunswick County Schools	Not Placed	<10	<10	*	<10	<10	*	*	*	<10	<10	*	*	<10	<10
110	Buncombe County Schools	Placed	232	279	17	<10	51	<10	14	<10	418	*	*	*	399	39
110	Buncombe County Schools	Not Placed	11	21	<10	<10	<10	*	<10	*	24	<10	*	*	23	<10
120	Burke County Schools	Placed	91	131	19	<10	24	*	<10	<10	168	<10	*	*	213	35
120	Burke County Schools	Not Placed	<10	<10	<10	<10	*	*	<10	*	<10	*	*	*	<10	<10
130	Cabarrus County Schools	Placed	440	459	236	73	60	<10	26	<10	497	<10	*	*	558	80
130	Cabarrus County Schools	Not Placed	202	261	145	32	29	*	18	<10	238	*	*	*	346	37

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PSU	PSU Name	Placed/ Not Placed	Female	Male	Asian	Black or African American	Hispanic or Latino	American Indian or Alaska Native	Two or More	Native Hawaiian/ Other Pacific Islander	White	English Language Status	Homeless Status	Migrant Status	AIG Status	EC Status
140	Caldwell County Schools	Placed	42	63	<10	*	<10	*	<10	*	89	*	*	*	86	14
140	Caldwell County Schools	Not Placed	12	26	*	<10	<10	*	<10	*	30	*	*	*	32	<10
150	Camden County Schools	Placed	<10	13	<10	*	<10	*	*	*	15	*	*	*	<10	<10
150	Camden County Schools	Not Placed	<10	10	*	*	<10	*	*	*	11	*	*	*	10	<10
160	Carteret County Public Schools	Placed	119	129	<10	<10	10	*	14	<10	213	*	*	*	191	24
160	Carteret County Public Schools	Not Placed	22	31	<10	*	<10	*	<10	*	43	*	*	*	23	<10
170	Caswell County Schools	Placed	<10	*	*	*	*	*	*	*	<10	*	*	*	<10	*
170	Caswell County Schools	Not Placed	*	<10	*	*	<10	*	<10	*	*	*	*	*	*	*
180	Catawba County Schools	Placed	212	263	35	<10	58	*	20	*	354	*	*	*	298	50
180	Catawba County Schools	Not Placed	15	23	*	*	<10	*	<10	*	27	*	*	*	22	<10
681	Chapel Hill-Carrboro City Schools	Placed	288	298	189	<10	24	*	51	*	313	<10	*	*	484	62
681	Chapel Hill-Carrboro City Schools	Not Placed	*	<10	<10	*	*	*	*	*	<10	*	*	*	<10	<10
600	Charlotte-Mecklenburg Schools	Placed	1,943	2,190	1,091	314	324	<10	103	<10	2,289	27	<10	*	2,887	208
600	Charlotte-Mecklenburg Schools	Not Placed	44	58	10	13	10	*	<10	*	65	<10	<10	*	56	<10
190	Chatham County Schools	Placed	74	82	12	<10	12	<10	<10	*	119	*	*	*	140	18
190	Chatham County Schools	Not Placed	<10	15	*	*	<10	*	<10	*	14	*	*	*	20	<10

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PSU	PSU Name	Placed/ Not Placed	Female	Male	Asian	Black or African American	Hispanic or Latino	American Indian or Alaska Native	Two or More	Native Hawaiian/ Other Pacific Islander	White	English Language Status	Homeless Status	Migrant Status	AIG Status	EC Status
200	Cherokee County Schools	Placed	15	16	<10	*	<10	*	<10	*	26	*	*	*	24	<10
200	Cherokee County Schools	Not Placed	<10	<10	*	*	<10	*	<10	*	10	*	*	*	<10	<10
220	Clay County Schools	Placed	<10	<10	*	*	*	*	*	*	12	*	*	*	<10	<10
220	Clay County Schools	Not Placed	<10	<10	*	*	*	*	*	*	<10	*	*	*	<10	<10
230	Cleveland County Schools	Placed	152	188	<10	12	31	*	12	*	280	<10	*	*	246	35
230	Cleveland County Schools	Not Placed	<10	20	<10	<10	<10	*	<10	*	23	*	*	*	19	<10
821	Clinton City Schools	Placed	19	18	<10	<10	<10	<10	<10	*	25	*	*	*	37	<10
821	Clinton City Schools	Not Placed	*	<10	*	*	<10	*	*	*	*	*	*	*	*	*
240	Columbus County Schools	Placed	<10	<10	*	<10	<10	*	*	*	14	*	*	*	12	<10
240	Columbus County Schools	Not Placed	12	<10	*	<10	<10	*	<10	*	17	*	*	*	15	<10
250	Craven County Schools	Placed	32	32	<10	<10	<10	*	<10	<10	46	*	*	*	48	<10
250	Craven County Schools	Not Placed	33	17	<10	<10	<10	*	<10	*	36	*	*	*	42	<10
260	Cumberland County Schools	Placed	178	190	63	61	48	<10	31	<10	154	*	*	*	304	143
260	Cumberland County Schools	Not Placed	<10	<10	<10	<10	<10	*	<10	*	<10	*	*	*	<10	<10
270	Currituck County Schools	Placed	10	18	<10	*	<10	*	*	*	24	*	*	*	19	<10
270	Currituck County Schools	Not Placed	<10	13	<10	*	<10	*	*	*	15	*	*	*	12	<10

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PSU	PSU Name	Placed/ Not Placed	Female	Male	Asian	Black or African American	Hispanic or Latino	American Indian or Alaska Native	Two or More	Native Hawaiian/ Other Pacific Islander	White	English Language Status	Homeless Status	Migrant Status	AIG Status	EC Status
280	Dare County Schools	Placed	36	37	<10	*	<10	*	<10	*	63	<10	*	*	59	<10
280	Dare County Schools	Not Placed	<10	<10	*	*	<10	*	*	*	<10	*	*	*	<10	*
290	Davidson County Schools	Placed	206	196	17	<10	38	<10	<10	<10	329	*	*	*	324	84
290	Davidson County Schools	Not Placed	<10	<10	*	*	<10	*	<10	*	<10	*	*	*	<10	<10
300	Davie County Schools	Placed	82	114	<10	<10	13	*	<10	*	175	*	*	*	158	27
300	Davie County Schools	Not Placed	<10	11	*	<10	<10	*	<10	*	15	*	*	*	<10	<10
310	Duplin County Schools	Placed	28	30	<10	<10	17	*	*	*	35	*	*	*	50	<10
310	Duplin County Schools	Not Placed	<10	<10	<10	*	<10	*	*	*	<10	*	*	*	<10	*
320	Durham Public Schools	Placed	97	106	15	18	20	*	14	*	136	*	*	*	167	127
320	Durham Public Schools	Not Placed	30	52	<10	10	13	*	<10	*	47	*	*	*	67	19
210	Edenton-Chowan Schools	Placed	<10	<10	*	*	<10	*	*	*	14	*	*	*	11	<10
210	Edenton-Chowan Schools	Not Placed	*	*	*	*	*	*	*	*	*	*	*	*	*	*
330	Edgecombe County Public Schools	Placed	<10	<10	<10	<10	*	*	*	*	<10	*	*	*	<10	*
330	Edgecombe County Public Schools	Not Placed	<10	<10	*	*	<10	*	*	*	<10	*	*	*	<10	*
700	Elizabeth City-Pasquotank Public Schools	Placed	<10	<10	*	*	<10	*	*	*	<10	*	*	*	<10	*
700	Elizabeth City-Pasquotank Public Schools	Not Placed	<10	<10	*	<10	*	*	*	*	<10	*	*	*	<10	*

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PSU	PSU Name	Placed/ Not Placed	Female	Male	Asian	Black or African American	Hispanic or Latino	American Indian or Alaska Native	Two or More	Native Hawaiian/ Other Pacific Islander	White	English Language Status	Homeless Status	Migrant Status	AIG Status	EC Status
861	Elkin City Schools	Placed	<10	14	*	*	<10	*	*	*	18	*	*	*	16	<10
861	Elkin City Schools	Not Placed	12	<10	<10	*	<10	*	<10	*	10	*	*	*	<10	*
350	Franklin County Schools	Placed	13	21	*	<10	<10	*	<10	<10	24	*	*	*	21	<10
350	Franklin County Schools	Not Placed	<10	<10	*	<10	<10	*	*	*	<10	*	*	*	<10	*
360	Gaston County Schools	Placed	295	329	31	41	61	*	19	*	472	<10	*	*	439	52
360	Gaston County Schools	Not Placed	20	28	<10	11	<10	*	<10	*	28	<10	*	*	18	<10
370	Gates County Schools	Placed	<10	<10	*	<10	*	*	*	*	<10	*	*	*	<10	<10
370	Gates County Schools	Not Placed	<10	<10	*	*	*	*	*	*	<10	*	*	*	<10	<10
380	Graham County Schools	Placed	<10	<10	<10	*	*	*	*	*	<10	<10	*	*	<10	<10
380	Graham County Schools	Not Placed	*	*	*	*	*	*	*	*	*	*	*	*	*	*
390	Granville County Schools	Placed	<10	<10	<10	<10	<10	*	*	*	<10	*	*	*	13	<10
390	Granville County Schools	Not Placed	<10	<10	*	*	<10	*	*	*	<10	*	*	*	<10	<10
400	Greene County Schools	Placed	<10	10	*	<10	<10	*	*	*	11	*	*	*	15	<10
400	Greene County Schools	Not Placed	<10	*	*	*	<10	*	*	*	*	*	*	*	<10	*
410	Guilford County Schools	Placed	438	493	243	87	49	<10	43	<10	505	<10	*	*	872	843
410	Guilford County Schools	Not Placed	<10	<10	<10	<10	<10	<10	*	*	<10	*	*	*	<10	12

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PSU	PSU Name	Placed/ Not Placed	Female	Male	Asian	Black or African American	Hispanic or Latino	American Indian or Alaska Native	Two or More	Native Hawaiian/ Other Pacific Islander	White	English Language Status	Homeless Status	Migrant Status	AIG Status	EC Status
420	Halifax County Schools	Placed	<10	*	*	<10	*	*	*	*	*	*	*	*	<10	*
420	Halifax County Schools	Not Placed	*	*	*	*	*	*	*	*	*	*	*	*	*	*
430	Harnett County Schools	Placed	81	73	<10	<10	28	<10	<10	<10	106	*	*	*	125	10
430	Harnett County Schools	Not Placed	10	25	*	<10	<10	*	<10	*	20	*	*	*	29	<10
440	Haywood County Schools	Placed	74	74	<10	<10	10	*	*	*	133	*	<10	*	98	15
440	Haywood County Schools	Not Placed	<10	<10	*	*	*	*	*	*	<10	*	*	*	<10	*
450	Henderson County Schools	Placed	102	109	10	*	23	*	<10	*	176	*	*	*	123	15
450	Henderson County Schools	Not Placed	47	79	<10	*	<10	*	<10	*	108	*	*	*	76	12
460	Hertford County Schools	Placed	<10	<10	<10	<10	*	*	*	*	<10	*	*	*	<10	*
460	Hertford County Schools	Not Placed	*	*	*	*	*	*	*	*	*	*	*	*	*	*
181	Hickory City Schools	Placed	45	39	<10	*	15	*	<10	*	60	*	*	*	69	10
181	Hickory City Schools	Not Placed	<10	*	<10	<10	*	*	*	*	*	*	*	*	*	*
470	Hoke County Schools	Placed	11	12	*	<10	<10	<10	<10	*	<10	*	*	<10	15	<10
470	Hoke County Schools	Not Placed	16	18	<10	<10	<10	<10	<10	*	15	*	*	*	29	<10
480	Hyde County Schools	Placed	*	<10	*	*	<10	*	*	*	<10	*	*	*	<10	*
480	Hyde County Schools	Not Placed	<10	<10	*	*	<10	*	*	*	<10	*	*	*	<10	*

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PSU	PSU Name	Placed/ Not Placed	Female	Male	Asian	Black or African American	Hispanic or Latino	American Indian or Alaska Native	Two or More	Native Hawaiian/ Other Pacific Islander	White	English Language Status	Homeless Status	Migrant Status	AIG Status	EC Status
295	Innovative School District	Placed	*	*	*	*	*	*	*	*	*	*	*	*	*	*
295	Innovative School District	Not Placed	*	*	*	*	*	*	*	*	*	*	*	*	*	*
490	Iredell-Statesville Schools	Placed	320	351	76	<10	46	*	26	<10	511	<10	*	*	479	63
490	Iredell-Statesville Schools	Not Placed	17	20	<10	<10	<10	*	<10	*	26	*	*	*	11	10
500	Jackson County Public Schools	Placed	<10	<10	<10	*	<10	*	<10	*	10	*	*	*	12	<10
500	Jackson County Public Schools	Not Placed	<10	11	*	*	<10	*	<10	<10	<10	*	*	*	10	<10
510	Johnston County Public Schools	Placed	196	251	14	18	57	<10	14	*	340	<10	*	*	382	57
510	Johnston County Public Schools	Not Placed	<10	14	*	*	<10	*	*	*	14	*	*	*	19	14
520	Jones County Schools	Placed	<10	<10	*	*	<10	*	<10	*	<10	*	*	*	<10	<10
520	Jones County Schools	Not Placed	*	*	*	*	*	*	*	*	*	*	*	*	*	*
132	Kannapolis City Schools	Placed	12	20	*	<10	<10	*	<10	*	18	*	*	*	30	<10
132	Kannapolis City Schools	Not Placed	<10	*	*	*	*	*	*	*	<10	*	*	*	<10	*
530	Lee County Schools	Placed	42	47	<10	<10	27	*	<10	*	53	*	*	*	85	<10
530	Lee County Schools	Not Placed	<10	<10	*	<10	*	*	*	*	<10	*	*	*	<10	*
540	Lenoir County Public Schools	Placed	12	11	<10	<10	<10	*	*	*	15	*	*	*	21	<10
540	Lenoir County Public Schools	Not Placed	14	10	*	<10	<10	*	*	*	19	*	*	*	24	<10

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291	Lexington City Schools	Placed	13	<10	<10	<10	10	*	*	*	<10	*	*	*	17	<10
291	Lexington City Schools	Not Placed	*	*	*	<10	*	*	*	*	*	*	*	*	*	<10
550	Lincoln County Schools	Placed	176	185	<10	<10	21	<10	<10	*	319	*	*	*	276	36
550	Lincoln County Schools	Not Placed	<10	<10	*	*	<10	*	<10	*	<10	*	*	*	<10	<10
560	Macon County Schools	Placed	31	44	<10	*	<10	*	<10	*	69	*	*	*	36	11
560	Macon County Schools	Not Placed	<10	<10	*	<10	<10	*	*	*	<10	*	*	*	<10	<10
570	Madison County Schools	Placed	<10	<10	*	*	*	*	*	*	11	*	*	*	<10	<10
570	Madison County Schools	Not Placed	10	12	*	*	<10	*	*	*	21	*	*	*	11	<10
580	Martin County Schools	Placed	<10	*	*	*	*	*	*	*	<10	*	*	*	<10	*
580	Martin County Schools	Not Placed	<10	*	*	*	*	*	*	*	<10	*	*	*	<10	*
590	McDowell County Schools	Placed	17	19	<10	*	<10	*	*	*	25	*	*	*	24	<10
590	McDowell County Schools	Not Placed	<10	<10	*	*	<10	*	*	*	11	*	*	*	13	<10
610	Mitchell County Schools	Placed	<10	10	*	*	<10	*	*	*	16	*	*	*	14	<10
610	Mitchell County Schools	Not Placed	<10	<10	*	*	<10	*	*	*	<10	*	*	*	<10	*
620	Montgomery County Schools	Placed	<10	11	<10	*	<10	*	<10	*	12	*	*	*	12	<10
620	Montgomery County Schools	Not Placed	<10	<10	*	*	<10	*	<10	*	<10	*	*	*	<10	<10

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PSU	PSU Name	Placed/ Not Placed	Female	Male	Asian	Black or African American	Hispanic or Latino	American Indian or Alaska Native	Two or More	Native Hawaiian/ Other Pacific Islander	White	English Language Status	Homeless Status	Migrant Status	AIG Status	EC Status
630	Moore County Schools	Placed	145	189	<10	<10	26	*	13	<10	280	*	*	*	247	18
630	Moore County Schools	Not Placed	<10	13	<10	<10	<10	<10	<10	*	<10	*	*	*	<10	<10
491	Mooresville Graded School District	Placed	67	64	<10	<10	<10	*	<10	*	104	*	*	*	93	11
491	Mooresville Graded School District	Not Placed	<10	28	<10	<10	<10	*	<10	*	25	*	*	*	33	*
862	Mount Airy City Schools	Placed	22	35	<10	*	<10	*	<10	*	44	<10	*	*	42	<10
862	Mount Airy City Schools	Not Placed	*	*	*	*	*	*	*	*	*	*	*	*	*	*
640	Nash County Public Schools	Placed	27	32	<10	<10	12	*	<10	*	39	*	*	*	43	<10
640	Nash County Public Schools	Not Placed	*	*	*	*	*	*	*	*	*	*	*	*	*	*
650	New Hanover County Schools	Placed	231	322	33	12	26	<10	27	*	454	*	*	*	431	29
650	New Hanover County Schools	Not Placed	<10	<10	<10	*	<10	*	*	*	11	*	*	*	<10	<10
182	Newton Conover City Schools	Placed	36	39	<10	<10	11	*	<10	*	50	*	*	*	59	<10
182	Newton Conover City Schools	Not Placed	<10	<10	*	*	*	*	*	*	<10	*	*	*	<10	*
660	Northampton County Schools	Placed	*	*	*	*	*	*	*	*	*	*	*	*	*	*
660	Northampton County Schools	Not Placed	*	*	*	*	*	*	*	*	*	*	*	*	*	*
670	Onslow County Schools	Placed	170	181	16	16	46	<10	28	<10	241	*	*	*	277	26
670	Onslow County Schools	Not Placed	<10	17	<10	<10	<10	*	<10	*	13	*	*	*	<10	<10

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PSU	PSU Name	Placed/ Not Placed	Female	Male	Asian	Black or African American	Hispanic or Latino	American Indian or Alaska Native	Two or More	Native Hawaiian/ Other Pacific Islander	White	English Language Status	Homeless Status	Migrant Status	AIG Status	EC Status
680	Orange County Schools	Placed	44	74	<10	<10	<10	*	<10	*	108	*	*	*	93	20
680	Orange County Schools	Not Placed	<10	<10	*	*	<10	*	*	*	<10	*	*	*	<10	*
690	Pamlico County Schools	Placed	<10	<10	*	*	<10	*	*	*	14	*	*	*	11	<10
690	Pamlico County Schools	Not Placed	*	*	*	*	*	*	*	*	*	*	*	*	*	*
710	Pender County Schools	Placed	105	126	<10	<10	22	*	<10	*	198	*	*	*	161	31
710	Pender County Schools	Not Placed	<10	15	<10	*	*	*	<10	*	21	*	*	*	18	<10
720	Perquimans County Schools	Placed	17	15	*	<10	*	*	*	*	30	*	*	*	21	<10
720	Perquimans County Schools	Not Placed	*	<10	*	*	*	*	*	*	<10	*	*	*	<10	<10
730	Person County Schools	Placed	16	22	*	<10	<10	*	<10	*	31	*	*	*	29	<10
730	Person County Schools	Not Placed	*	*	*	*	*	*	*	*	*	*	*	*	*	*
740	Pitt County Schools	Placed	278	290	61	43	39	*	27	<10	397	<10	*	*	482	275
740	Pitt County Schools	Not Placed	22	19	<10	10	<10	*	<10	*	22	<10	*	*	25	21
750	Polk County Schools	Placed	14	23	*	<10	<10	*	<10	*	29	*	*	*	33	<10
750	Polk County Schools	Not Placed	<10	<10	*	*	*	*	*	*	<10	*	*	*	<10	*
780	Public Schools of Robeson County	Placed	12	14	<10	<10	<10	<10	<10	*	10	*	*	*	15	<10
780	Public Schools of Robeson County	Not Placed	<10	12	<10	*	<10	<10	*	*	<10	*	*	*	10	*

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PSU	PSU Name	Placed/ Not Placed	Female	Male	Asian	Black or African American	Hispanic or Latino	American Indian or Alaska Native	Two or More	Native Hawaiian/ Other Pacific Islander	White	English Language Status	Homeless Status	Migrant Status	AIG Status	EC Status
760	Randolph County School System	Placed	41	38	<10	<10	<10	*	<10	*	64	*	*	*	63	69
760	Randolph County School System	Not Placed	44	67	<10	*	12	<10	<10	*	90	<10	*	*	88	35
770	Richmond County Schools	Placed	13	14	*	<10	<10	*	<10	*	21	*	<10	*	27	<10
770	Richmond County Schools	Not Placed	*	<10	*	*	*	<10	*	*	<10	*	*	*	<10	<10
421	Roanoke Rapids City Schools	Placed	<10	12	<10	<10	<10	*	*	*	14	*	*	*	16	<10
421	Roanoke Rapids City Schools	Not Placed	*	*	*	*	*	*	*	*	*	*	*	*	*	*
790	Rockingham County Schools	Placed	47	60	<10	<10	<10	*	<10	*	86	*	*	*	101	17
790	Rockingham County Schools	Not Placed	11	<10	*	<10	<10	*	*	*	15	*	*	*	16	<10
800	Rowan-Salisbury Schools	Placed	17	17	<10	*	<10	<10	<10	*	26	*	*	*	28	*
800	Rowan-Salisbury Schools	Not Placed	19	28	<10	*	<10	*	<10	*	39	*	*	*	41	<10
73B	Roxboro Community School	Placed	29	19	<10	<10	<10	*	<10	*	41	*	*	*	42	<10
73B	Roxboro Community School	Not Placed	*	*	*	*	*	*	*	*	*	*	*	*	*	*
810	Rutherford County Schools	Placed	35	30	<10	<10	<10	*	<10	*	53	*	*	*	59	<10
810	Rutherford County Schools	Not Placed	<10	<10	*	*	*	*	*	*	<10	*	*	*	<10	*
820	Sampson County Schools	Placed	54	48	*	<10	32	*	<10	*	66	<10	*	*	84	<10
820	Sampson County Schools	Not Placed	<10	*	*	*	*	*	*	*	<10	*	*	*	<10	*

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PSU	PSU Name	Placed/ Not Placed	Female	Male	Asian	Black or African American	Hispanic or Latino	American Indian or Alaska Native	Two or More	Native Hawaiian/ Other Pacific Islander	White	English Language Status	Homeless Status	Migrant Status	AIG Status	EC Status
830	Scotland County Schools	Placed	<10	<10	*	<10	*	<10	*	*	<10	*	*	*	<10	<10
830	Scotland County Schools	Not Placed	<10	<10	<10	<10	*	<10	<10	*	<10	*	*	*	11	<10
92P	Southern Wake Academy	Placed	<10	<10	<10	*	*	*	*	*	<10	*	*	*	<10	<10
92P	Southern Wake Academy	Not Placed	*	*	*	*	*	*	*	*	*	*	*	*	*	*
840	Stanly County Schools	Placed	27	20	*	<10	<10	*	<10	*	44	*	*	*	37	<10
840	Stanly County Schools	Not Placed	23	15	<10	<10	<10	*	<10	*	28	*	*	*	30	<10
850	Stokes County Schools	Placed	20	20	<10	*	<10	*	<10	*	37	*	*	*	31	13
850	Stokes County Schools	Not Placed	17	14	*	*	<10	*	<10	*	25	*	*	*	25	<10
860	Surry County Schools	Placed	71	70	<10	<10	32	*	<10	*	102	*	*	*	87	12
860	Surry County Schools	Not Placed	18	15	*	<10	11	*	<10	*	20	*	*	<10	<10	<10
870	Swain County Schools	Placed	<10	14	*	*	*	<10	<10	*	16	*	*	*	16	<10
870	Swain County Schools	Not Placed	<10	*	*	*	*	<10	*	*	*	*	*	*	<10	<10
292	Thomasville City Schools	Placed	*	<10	*	<10	<10	*	*	*	<10	*	*	*	<10	*
292	Thomasville City Schools	Not Placed	*	*	*	*	*	*	*	*	*	*	*	*	*	*
880	Transylvania County Schools	Placed	23	18	*	*	<10	*	*	*	38	*	*	*	36	<10
880	Transylvania County Schools	Not Placed	<10	<10	*	*	<10	*	*	*	*	*	*	*	<10	<10

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PSU	PSU Name	Placed/ Not Placed	Female	Male	Asian	Black or African American	Hispanic or Latino	American Indian or Alaska Native	Two or More	Native Hawaiian/ Other Pacific Islander	White	English Language Status	Homeless Status	Migrant Status	AIG Status	EC Status
92T	Triangle Math and Science Academy	Placed	30	43	44	<10	<10	*	<10	*	18	*	*	*	16	<10
92T	Triangle Math and Science Academy	Not Placed	<10	<10	*	*	*	*	<10	*	<10	*	*	*	*	*
890	Tyrrell County Schools	Placed	*	*	*	*	*	*	*	*	*	*	*	*	*	*
890	Tyrrell County Schools	Not Placed	*	<10	*	*	*	*	*	*	<10	*	*	*	<10	<10
900	Union County Public Schools	Placed	1,253	1,312	527	78	181	<10	84	<10	1,688	<10	*	*	1,850	125
900	Union County Public Schools	Not Placed	73	85	13	<10	13	*	<10	*	120	*	*	*	48	14
910	Vance County Schools	Placed	<10	<10	*	<10	<10	*	<10	*	<10	*	*	*	11	<10
910	Vance County Schools	Not Placed	*	<10	*	*	<10	*	*	*	<10	*	*	*	<10	*
920	Wake County Schools	Placed	2,169	2,651	1,795	164	209	<10	145	<10	2,495	24	*	*	3,577	375
920	Wake County Schools	Not Placed	36	73	54	<10	12	*	<10	*	33	<10	*	*	66	14
930	Warren County Schools	Placed	*	*	*	*	*	*	*	*	*	*	*	*	*	*
930	Warren County Schools	Not Placed	*	*	*	*	*	*	*	*	*	*	*	*	*	*
940	Washington County Schools	Placed	<10	<10	<10	<10	*	*	*	*	<10	*	*	*	<10	<10
940	Washington County Schools	Not Placed	*	*	*	*	*	*	*	*	*	*	*	*	*	*
950	Watauga County Schools	Placed	90	70	<10	*	<10	*	<10	*	142	*	*	*	121	47
950	Watauga County Schools	Not Placed	<10	<10	*	*	*	*	*	*	<10	*	*	*	<10	<10

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PSU	PSU Name	Placed/ Not Placed	Female	Male	Asian	Black or African American	Hispanic or Latino	American Indian or Alaska Native	Two or More	Native Hawaiian/ Other Pacific Islander	White	English Language Status	Homeless Status	Migrant Status	AIG Status	EC Status
960	Wayne County Public Schools	Placed	64	76	<10	10	35	*	10	<10	77	<10	*	<10	98	11
960	Wayne County Public Schools	Not Placed	<10	<10	*	<10	<10	*	*	*	<10	*	*	*	<10	<10
422	Weldon City Schools	Placed	*	*	*	*	*	*	*	*	*	*	*	*	*	*
422	Weldon City Schools	Not Placed	*	*	*	*	*	*	*	*	*	*	*	*	*	*
241	Whiteville City Schools	Placed	17	<10	<10	<10	*	*	*	*	19	*	*	*	16	<10
241	Whiteville City Schools	Not Placed	<10	<10	*	<10	<10	*	*	*	11	*	*	*	<10	*
970	Wilkes County Schools	Placed	80	96	<10	<10	20	<10	<10	*	146	*	*	*	130	19
970	Wilkes County Schools	Not Placed	<10	<10	<10	*	*	*	*	*	<10	*	*	*	<10	<10
980	Wilson County Schools	Placed	23	17	<10	<10	<10	<10	*	*	20	*	*	<10	31	<10
980	Wilson County Schools	Not Placed	28	32	*	<10	<10	<10	<10	<10	43	*	*	*	44	<10
340	Winston Salem / Forsyth County Schools	Placed	403	478	114	34	57	*	30	*	646	<10	*	*	742	479
340	Winston Salem / Forsyth County Schools	Not Placed	10	19	<10	<10	11	*	<10	*	<10	*	*	*	18	14
990	Yadkin County Schools	Placed	45	45	<10	<10	16	*	*	*	72	*	*	*	66	19
990	Yadkin County Schools	Not Placed	*	<10	*	*	*	*	*	*	*	*	*	*	<10	<10
995	Yancey County Schools	Placed	16	21	*	*	<10	*	*	*	34	*	*	*	25	<10
995	Yancey County Schools	Not Placed	<10	<10	*	*	*	<10	*	*	<10	*	*	*	<10	<10

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## Summary of Findings:

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. Before full implementation could begin however, the state was impacted by the school closures resulting from the COVID-19 pandemic. As a result, no assessment data was available for the 2019-2020 school year, and the legislation was temporarily revised to ensure PSUs considered all existing data in equitable ways for students as mathematics course placement decisions were made. In addition, there were revisions made to the reporting requirements of the legislation to take into consideration the lack of end of grade and end of course assessment data. Therefore, in December 2020, the report shared with the general assembly included information regarding the enrollment, by race/ethnic group of all students enrolled in advanced mathematics courses for grades six and higher and all students participating in advanced learning opportunities in grades 3-5. With students returning to on-campus learning during the 2020-21 school year, end of grade and course assessments were once again available, and these data were utilized to determine which students were eligible for enrollment in advanced courses. As a result, 2021-22 is the first school year in which assessment data from the previous school year has been available to review to determine if current course placement is aligned to the legislated requirements.

In this year of baseline data, the following observations are noted:

- During the 2020-21 school year, **29,079** students in grades 6-13, scored at the highest level on either an end of grade or end of course mathematics assessment. In alignment with the legislation, these students were then eligible for placement in an advanced mathematics course in the current school year. Of those eligible students:
  - **91%** (26,575) are currently placed in an advanced mathematics course, and
  - **9%** (2,505) are not currently placed in an advanced mathematics course.
- Initial data indicates that the students in the American Indian or Alaska Native population are most frequently missed, or not placed, in advanced mathematics courses.
  - In grades 6-13, 19% of American Indian or Alaska Native students are not placed in an advanced course, as compared to counterparts ranging from 6 - 12% not placed.

- The percentage is highest in grades 6-8, where 27% of students are not placed and shows improvement at high school, where only 9% of students are not placed.
- In further reviewing the data by grade band and ethnic group, the percentage of students placed in an advanced mathematics course is **lowest** for students in grades 6 and/or 7.
  - For example, only 54% of 6th grade American Indian/Alaskan Native students, 80% of 6th grade multiracial (2 or more races) students, and 82% of 6th grade Hispanic or Latino students are placed in an advanced mathematics course. Likewise, for students in 7th grade, the percentage of eligible students placed in an advanced mathematics course ranges from 60 - 88%.
  - This lower percentage of students not placed, is likely the result of few PSUs offering advanced courses and opportunities at these grades. Therefore, the students eligible for advanced courses do not have a course offered in the local unit.
- Conversely, the number and percentage of students placed in an advanced mathematics course peaks for all ethnic groups, with 89 - 100% of eligible students placed in an advanced mathematics course during 8th grade. However, the ethnic group with the lowest percentage of students placed at grade 8 is still the American Indian or Alaska Native (89%).
- A similar trend is seen when examining sex data; with 6th and 7th grade students, both male and female placed between 84-89%, while in 8th grade, male and female students are placed at 97 and 98% respectively.
- For most ethnic groups, the percent of eligible students enrolled in an advanced course drops between 8th and 9th grade. For example, while 97% of Black and Hispanic/Latino students are enrolled in an advanced course at 8th grade, the percentage drops during 9th grade to 88% and 83% respectively.
- When examining the data by sex in grades 9-13, there is a decline in both male and female students in the final high school years, with the percentage of students placed dropping to 78 and 86% respectively at grade 12. This drop is likely due to students at grade 12 or 13 having completed all graduation requirements in mathematics, and choosing other coursework for the final high school year(s).
- In grades 9-13, districts and charters 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 eligible for advanced mathematics courses are enrolled in 23 of the 28 available high school advanced mathematics courses this year.

### **Next Steps for NCDPI:**

After reviewing and analyzing the Advanced Mathematics Course (AMC) report, NCDPI highlights the following observations and is committed to develop a plan of action to address these observations.

#### ***The higher likelihood of non-placement in advanced math courses for students of American Indian/ Alaska Native descent, in addition to other demographic groups.***

NCDPI will work with PSUs to put systems in place to monitor and analyze the end of grade and end of course assessment data soon after assessments are complete and develop a process of internal accountability to ensure that the families of all students who score at the highest level are properly notified of advanced math course eligibility and are scheduled accordingly. Additionally, NCDPI will provide guidance to districts in how to support parents/guardians in understanding their rights related to the advanced math course eligibility and addressing concerns parents/guardians may have when students are experiencing an advanced course for the first time.

#### ***The higher likelihood of students of all race/ethnic groups not placed in advanced courses at grades 6 and/or 7.***

NCDPI will work with PSUs to support advanced offerings available to students across grades 6 and 7. This will include determining concerns held by schools and districts with offering advanced courses early and addressing those concerns through the development and utilization of NCDPI resources. In addition, NCDPI will examine the statewide summary data to determine if there are trends to suggest a gap in providing advanced courses at grade 6-12 that may be attributed to regional or geographic factors that can be addressed with support and resources. NCDPI will support districts in changing mindsets, policies, and practices with focused professional learning opportunities to support teacher and student success.

#### ***The decline of enrollment in advanced math course offerings after 8th grade.***

NCDPI will work to support districts to better place high school students who are not currently being placed in advanced courses in grades 9-13. These efforts will include intentional monitoring of end of grade data for 8th grade students taking the end of grade assessment for grade 8, as well as, those students taking the end of course assessment for either NC Math 1 or NC Math 3. In addition, NCDPI will work with districts to ensure advanced courses are both offered and encouraged across all grade levels within the high school setting.

***Better documentation of parent/guardian choice not to place.***

Finally, one concern noted from the perspective of the PSU, is to develop a way to note that some of the students who are not placed, are in that category because of a written parent/guardian request. As a result, one potential next step with reporting the AMC data is to find a mechanism for sharing the number of and demographic information for those students who are eligible for placement in an advanced math course, but who have a parent/guardian's written request to not enter the advanced course. Throughout the process of collecting the AMC data, PSUs expressed a desire to be able to report those cases of parent request, to help better understand the context for local data.

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