

The Condition of College & Career Readiness 2018

Michigan Key Findings

Performance

- In the 2018 Michigan graduating class, 22,738 graduates (22 percent) took the ACT test with a Composite score average of 24.4. This compares to 119,990 (100 percent) with an average of 20.1 in 2014. Nationally, 55% of 2018 graduates took the ACT with an average Composite score of 20.8.
 - ~ The 2018 Michigan graduating class average English score was 24.5. This compares to 24.1 and 19.3 in 2017 and 2014, respectively.
 - ~ The 2018 Michigan graduating class average math score was 23.9. This compares to 23.7 and 19.9 in 2017 and 2014, respectively.
 - ~ The 2018 Michigan graduating class average reading score was 24.7. This compares to 24.5 and 20.2 in 2017 and 2014, respectively.
 - ~ The 2018 Michigan graduating class average science score was 23.9. This compares to 23.8 and 20.4 in 2017 and 2014, respectively.
- In 2018, 48 percent of Michigan graduates met all four ACT College Readiness Benchmarks. This compares to 47 and 22 percent of 2017 and 2014 graduates, respectively.
 - ~ In 2018, 14,599 (64 percent) of Michigan graduates met three or four ACT College Readiness Benchmarks. This compares to 18,799 and 39,551 (63 and 33 percent) out of 2017 and 2014 graduates, respectively. For reference, the national percentage of 2018 graduates meeting three or four benchmarks was 38%.
 - ~ In 2018, 12 percent of Michigan graduates met zero ACT College Readiness Benchmarks. This compares to 12 and 37 percent of 2017 and 2014 graduates, respectively.
 - ~ In 2018, 84 percent of Michigan graduates met the ACT English College Readiness Benchmark. This compares to 84 and 59 percent of 2017 and 2014 graduates, respectively.
 - ~ In 2018, 65 percent of Michigan graduates met the ACT Math College Readiness Benchmark. This compares to 64 and 35 percent of 2017 and 2014 graduates, respectively.
 - ~ In 2018, 67 percent of Michigan graduates met the ACT Reading College Readiness Benchmark. This compares to 68 and 36 percent of 2017 and 2014 graduates, respectively.
 - ~ In 2018, 60 percent of Michigan graduates met the ACT Science College Readiness Benchmark. This compares to 58 and 33 percent of 2017 and 2014 graduates, respectively.
- In 2018, 4 percent of Michigan graduates took the ACT with extended time. This compares to 3 and 8 percent of 2017 and 2014 graduates, respectively.
- 68 percent of 2018 Michigan graduates were Proficient or Above Proficient in understanding complex texts.
- 32 percent of 2018 Michigan graduates were Below Proficient in understanding complex texts.

STEM

- In 2018, 12,762 Michigan graduates (56 percent) indicated having an interest in STEM majors and/or careers.
 - ~ Nationally, 45 percent of graduates indicated having an interest in STEM.
- In 2018, 16,052 Michigan graduates (71 percent) indicated taking physics. This compares to 72 and 55 percent for the 2017 and 2014 graduating classes, respectively.
 - ~ 65 percent of 2018 Michigan graduates taking physics met the ACT Science College Readiness Benchmark, compared to 48 for students not taking physics.
- In 2018, 21,979 Michigan graduates (97 percent) indicated taking three or more years of math. This compares to 97 and 88 percent for 2017 and 2014 graduating classes, respectively.
 - ~ 2018 graduates taking three or more years of math had an average math score of 24.0, compared to 19.1 for students taking less than three years of math.
- 2018 Michigan graduates meeting the ACT STEM College Readiness Benchmark had an average math score of 29.3. This compares to 28.5 in 2014.

Career Readiness

- The number of ACT WorkKeys® National Career Readiness Certificates® (NCRC®) provided by the Michigan Department of Education to the members of the graduating class of 2018, based on their WorkKeys testing: 109,621 students tested; 16,883 received a Bronze NCRC; 59,240 received a Silver NCRC; 20,852 received a Gold NCRC; and 277 received a Platinum NCRC.

Impact

- Based on the actual test volume and ACT score distributions of 2018 ACT-tested Michigan high school graduates, ACT research estimates that an increase of 0.1 in state average ACT Composite score for the 2018 graduating class would result in:
 - ~ 45 more students enrolling in college.
 - ~ 54 more students persisting to year two.
 - ~ 31 fewer students needing remedial English.
 - ~ 52 fewer students needing remedial math.
 - ~ 63 more students persisting to year four.
 - ~ 69 more students earning a postsecondary degree within six years.

Behaviors that Impact Access and Opportunity

- In Michigan, 11,783 of the 2018 graduates (51.8%) taking the ACT two or more times had an average Composite score of 25.7, compared to an average of 23.0 for 10,955 of the 2018 graduates (48.2%) who took the ACT only once.
- Nationwide, 847,940 of the 2018 graduates (44.3%) taking the ACT two or more times had an average Composite score of 22.7, compared to an average of 19.3 for 1,066,877 of the 2018 graduates (55.7%) who took the ACT only once.
- 47,907 score reports were sent to colleges by 2018 Michigan ACT-tested graduates.
 - ~ 29,265 score reports were sent to in-state public colleges by 2018 Michigan ACT-tested graduates.
 - ~ For Michigan's 2018 ACT-tested graduates, the top five schools to which scores were sent were Michigan State University, University of Michigan-Ann Arbor, Grand Valley State University, Central Michigan University, and Western Michigan University.
 - ~ For Michigan's 2018 ACT-tested graduates, the top three out-of-state schools to which scores were sent were Purdue University, University of Toledo, and Northwestern University.
- Compared to 68 percent of 2018 graduates nationally, 68 percent of Michigan graduates opted into the ACT Educational Opportunity Service (EOS). EOS is a free service that allows students to gain exposure to recruitment, scholarship agencies, colleges, and universities that students may not have accessed on their own. The ACT Get Your Name in the Game initiative encourages colleges and universities to recruit underserved EOS participants to increase access and opportunity for all.
- In the 2017-2018 academic year, ACT issued 3,044 ACT fee waivers to qualified Michigan students. However, 907 students (29.8 percent) did not take advantage of this opportunity to test for free. This compares to 542,506 waivers issued nationally, of which 152,227 (28.1 percent) students did not take advantage. This represents a great opportunity for high schools within the state to increase the socioeconomic diversity of its students tested. Note: this is the number of fee waivers issued for the state, not specific to this graduating class.

Pipeline

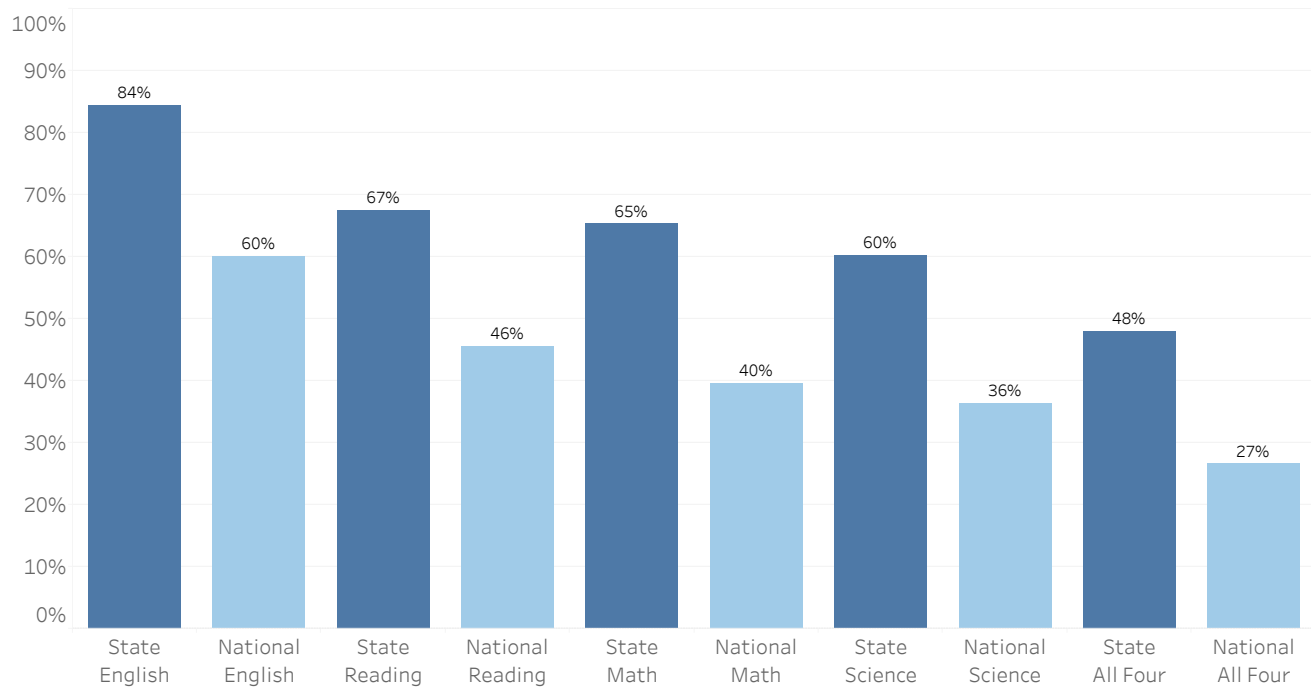
- Aspirations matter. Students who aspire to a higher level of postsecondary education typically achieve higher ACT Composite scores.
 - ~ 11,768 students (52 percent) aspired to attain a graduate or professional degree. They had an average Composite score of 25.9.
 - ~ 9,175 students (40 percent) aspired to attain a bachelor's degree. They had an average Composite score of 22.6.
- In order of prevalence, the five most commonly indicated college majors of interest for 2018 Michigan graduates were: Undecided; Medicine (Pre-Medicine); Nursing, Registered (BS/RN); Business Administration and Management, General; and Mechanical Engineering.
 - ~ In the Michigan graduating class of 2018, 4,127 students (18 percent) indicated being undecided about their college major. They had an average Composite score of 24.5. Decision making regarding college major can be facilitated through activities included in ACT Aspire® and PreACT™ testing experiences. In addition, the Student Score Report is a valuable tool for conversations using the College and Career Planning and Interest-Major Fit sections.
 - ~ In the Michigan graduating class of 2018, 718 (3 percent) indicated planning on majoring in education. They had an average Composite score of 22.2.
- There is good news in that 93% of Michigan's 2018 ACT-tested graduates aspired to postsecondary education. Interestingly enough, 93% of Michigan's 2017 ACT-tested graduating class aspired to enroll in postsecondary education, compared to 87% who actually did enroll. If we fully closed the aspirational gap, an additional 1,799 of the 2017 ACT-tested graduates from Michigan would have enrolled in postsecondary education.

Additional Points

- The Michigan ACT State Organization continues to grow in membership and in diversity, with more than 467 members from across the state. The membership includes educators from state agencies, K-12, access, and postsecondary institutions, as well as members involved in workforce development. Members of the Michigan ACT State Organization and State Council meet to discuss the educational landscape in Michigan and how council/organization members can work together to contribute to ACT's mission of helping individuals achieve education and workplace success.
- The ACT College and Career Readiness Champions are individuals across the country who support ACT's mission of education and workplace success. They are high school seniors, K-12, postsecondary, and workforce professionals who have demonstrated exemplary behavior and contributions in support of college and career readiness in their respective communities. Congratulations to the Michigan Champions: Reem Aburukba (High School Senior), Kelly Fink (K-12 Professional), and Christine Turnbow (Workforce Professional).
- ~ 2018 Michigan College and Career Readiness Champions: Workforce Champion - Christine Turnbow, Center Director for Sylvan Learning Center; K-12 Champion - Kelly Fink, Guidance Counselor - Lutheran High School Northwest; and Student Champion - Reem Abrukba, Fordham High School

MICHIGAN College and Career Readiness Attainment, Participation, and Opportunity

Percent of 2018 ACT-Tested High School Graduates Meeting ACT College Readiness Benchmarks* by Subject



Data From Graph Above

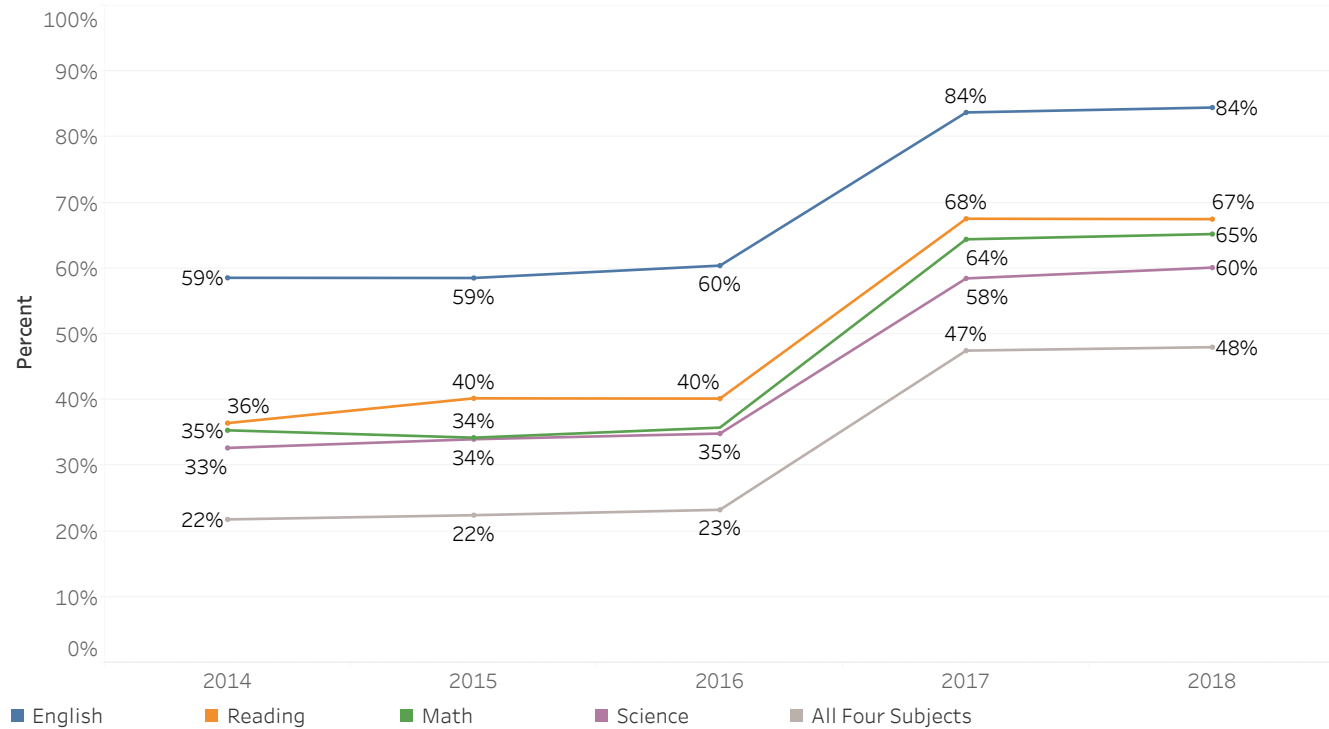
State English	National English	State Reading	National Reading	State Math	National Math	State Science	National Science	State All Four	National All Four
84%	60%	67%	46%	65%	40%	60%	36%	48%	27%

* The ACT College Readiness Benchmarks are scores on the ACT subject area tests that represent the level of achievement required for students to have a 50% chance of obtaining a B or higher or about a 75% chance of obtaining a C or higher in corresponding credit-bearing first-year college courses. Throughout this report, benchmark attainment corresponds with students meeting or exceeding 18 in English, 22 in Reading, 22 in Math and 23 in Science.

Note, missing data points in tables and graphs reflect insufficient data for reporting.

MICHIGAN College and Career Readiness Attainment, Participation, and Opportunity

Percent of 2014–2018 ACT-Tested High School Graduates Meeting ACT College Readiness Benchmarks*



Data From Graph Above

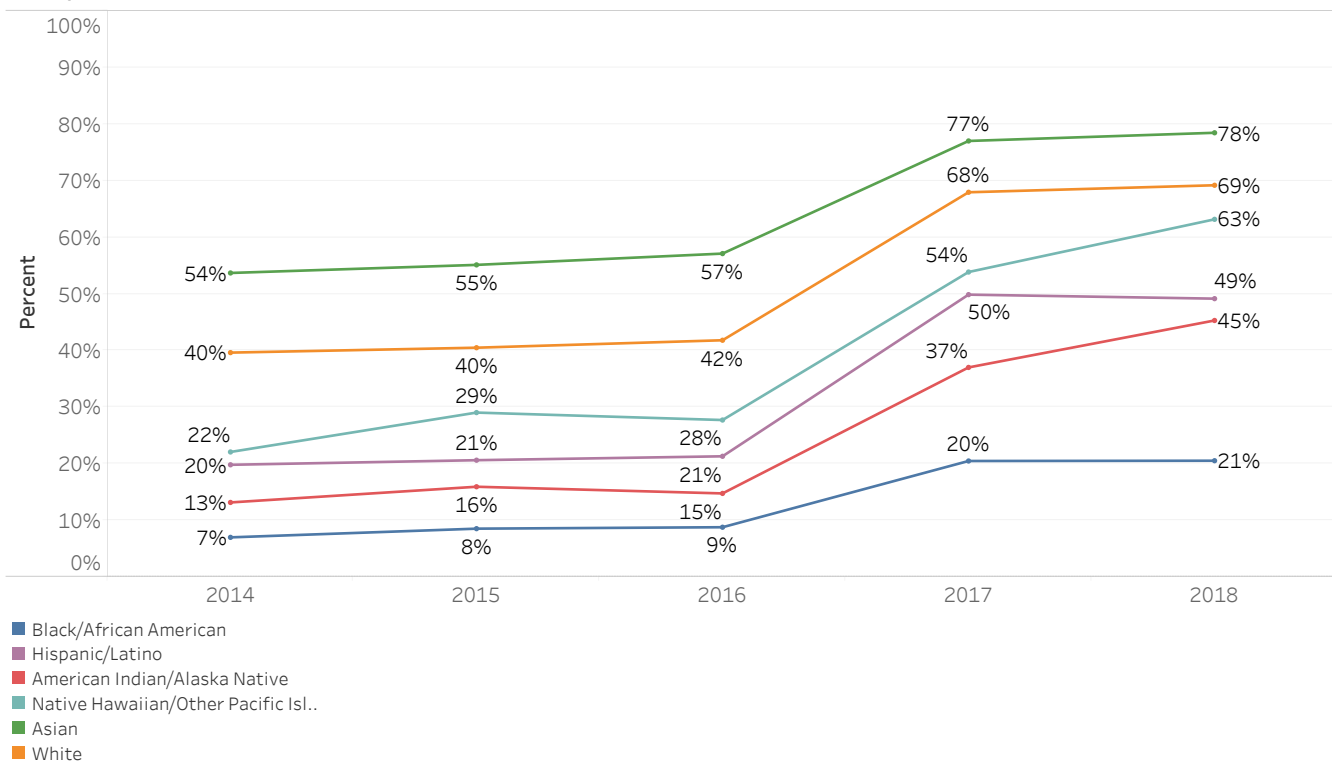
	English	Reading	Math	Science	All Four Subjects
2014	59%	36%	35%	33%	22%
2015	59%	40%	34%	34%	22%
2016	60%	40%	36%	35%	23%
2017	84%	68%	64%	58%	47%
2018	84%	67%	65%	60%	48%

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MICHIGAN College and Career Readiness Attainment, Participation, and Opportunity

Percent of 2014-2018 ACT-Tested High School Graduates Meeting Three or More Benchmarks by Race/Ethnicity



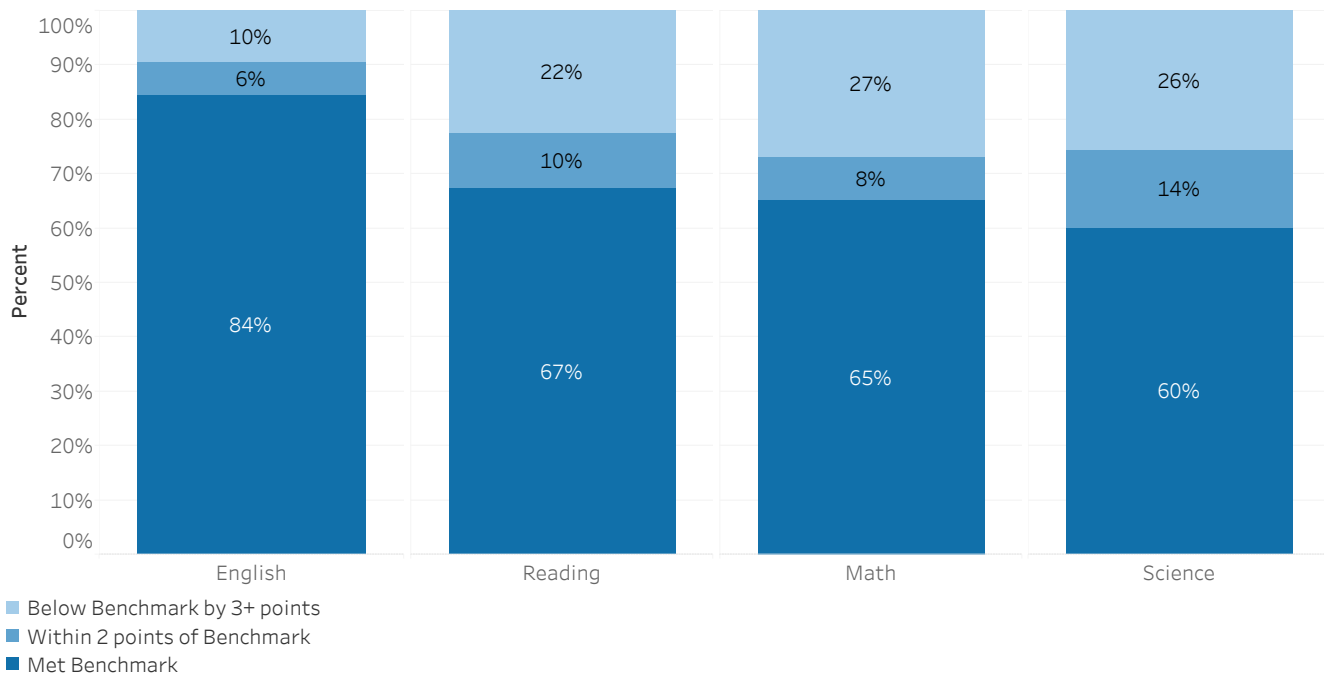
Data From Graph Above

	Black/African American	Hispanic/Latino	American Indian/Alaska Native	Native Hawaiian/Other Pacific Islander	Asian	White
2014	7%	20%	13%	22%	54%	40%
2015	8%	21%	16%	29%	55%	40%
2016	9%	21%	15%	28%	57%	42%
2017	20%	50%	37%	54%	77%	68%
2018	21%	49%	45%	63%	78%	69%

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MICHIGAN College and Career Readiness Attainment, Participation, and Opportunity

Percent of 2018 ACT-Tested High School Graduates by ACT College Readiness Benchmark Attainment and Subject



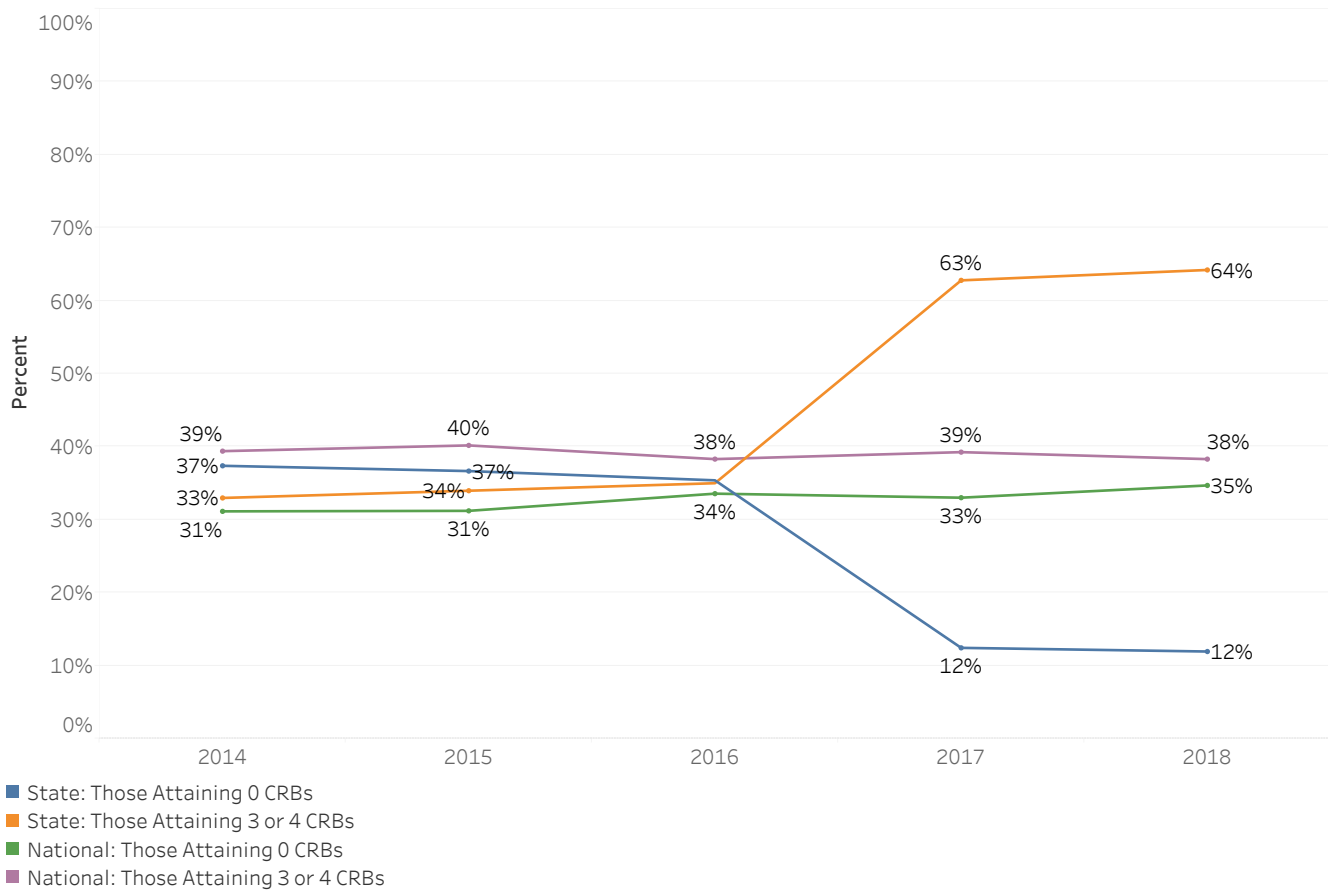
Data From Graph Above

	Below Benchmark by 3+ points	Within 2 points of Benchmark	Met Benchmark
English	10%	6%	84%
Math	27%	8%	65%
Reading	22%	10%	67%
Science	26%	14%	60%

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Percent of 2014–2018 ACT-Tested High School Graduates Meeting ACT College Readiness Benchmarks*



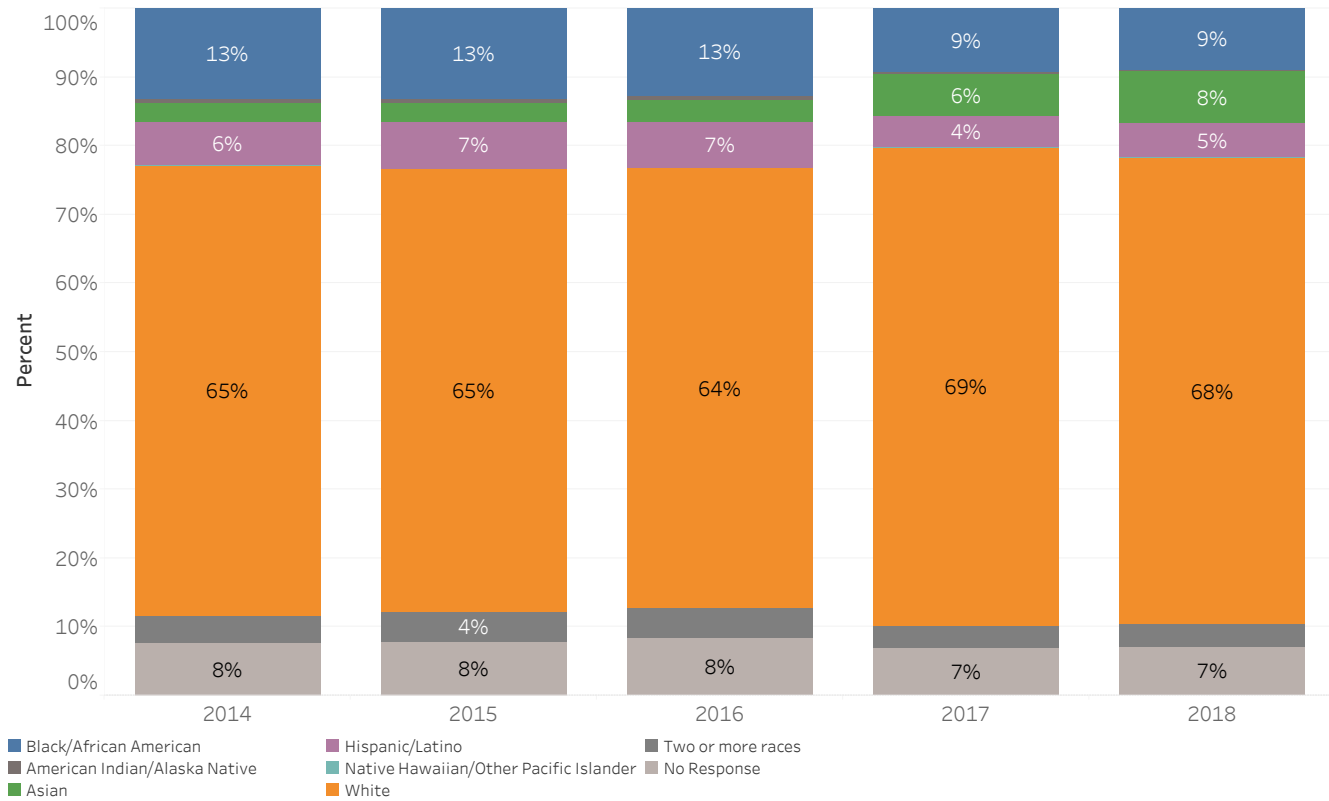
Data from Graph Above

	State: Those Attaining 0 CRBs	State: Those Attaining 3 or 4 CRBs	National: Those Attaining 0 CRBs	National: Those Attaining 3 or 4 CRBs
2014	37%	33%	31%	39%
2015	37%	34%	31%	40%
2016	35%	35%	34%	38%
2017	12%	63%	33%	39%
2018	12%	64%	35%	38%

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MICHIGAN College and Career Readiness Attainment, Participation, and Opportunity

Percent of 2014-2018 ACT-Tested High School Graduates by Race/Ethnicity



Data From Graph Above

	Black/African American	American Indian/Alaska Native	Asian	Hispanic/Latino	Native Hawaiian/Other Pacific Islander	White	Two or more races	No Response
2014	13%	1%	3%	6%	0%	65%	4%	8%
2015	13%	1%	3%	7%	0%	65%	4%	8%
2016	13%	1%	3%	7%	0%	64%	4%	8%
2017	9%	0%	6%	4%	0%	69%	3%	7%
2018	9%	0%	8%	5%	0%	68%	3%	7%

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MICHIGAN College and Career Readiness Attainment, Participation, and Opportunity

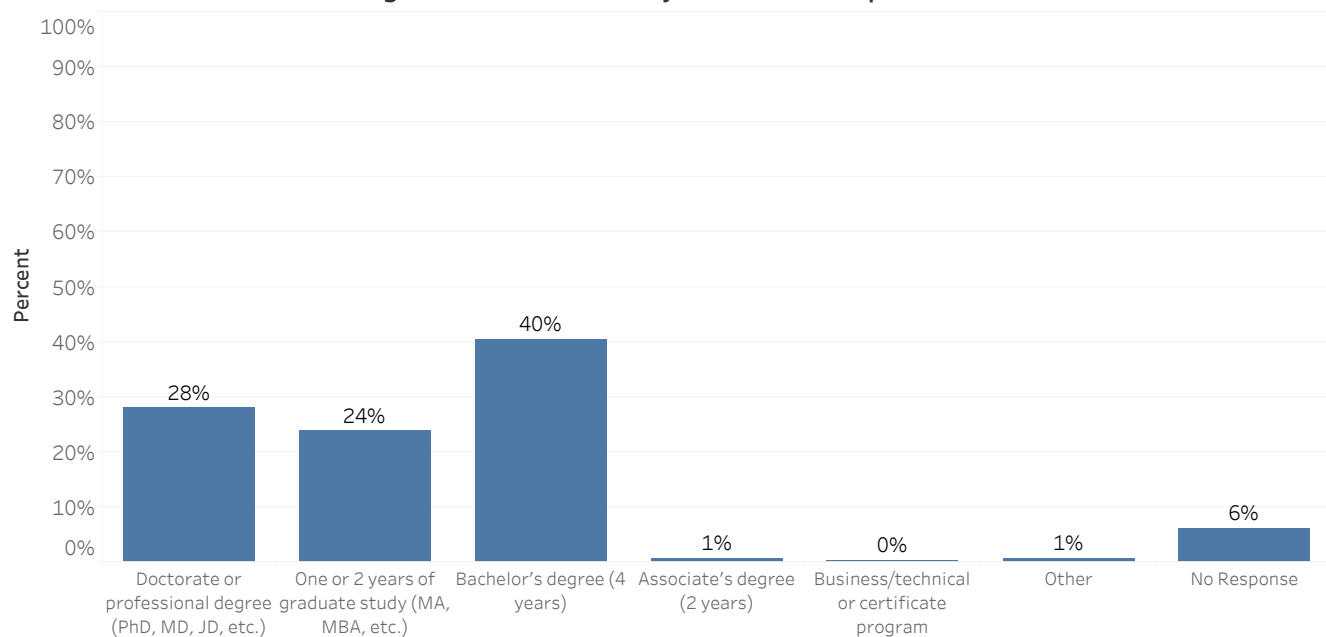
Student Data Trends: 2014-2018, State vs. Nation

	2014	2015	2016	2017	2018
State N-count	119,990	118,555	115,454	29,944	22,738
National N-count	1,845,787	1,924,436	2,090,342	2,030,038	1,914,817
Average ACT English Score - State	19.3	19.4	19.9	24.1	24.5
Average ACT English Score - National	20.3	20.4	20.1	20.3	20.2
Average ACT Reading Score - State	20.2	20.3	20.7	24.5	24.7
Average ACT Reading Score - National	21.3	21.4	21.3	21.4	21.3
Average ACT Math Score - State	19.9	19.9	19.9	23.7	23.9
Average ACT Math Score - National	20.9	20.8	20.6	20.7	20.5
Average ACT Science Score - State	20.4	20.4	20.5	23.8	23.9
Average ACT Science Score - National	20.8	20.9	20.8	21.0	20.7
Average ACT Composite Score - State	20.1	20.1	20.3	24.1	24.4
Average ACT Composite Score - National	21.0	21.0	20.8	21.0	20.8

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MICHIGAN College and Career Readiness Attainment, Participation, and Opportunity

Percent of 2018 ACT-Tested High School Graduates by Educational Aspirations



Data From Graph Above

	% of Graduates
Doctorate or professional degree (PhD, MD, JD, etc.)	28%
One or 2 years of graduate study (MA, MBA, etc.)	24%
Bachelor's degree (4 years)	40%
Associate's degree (2 years)	1%
Business/technical or certificate program	0%
Other	1%
No Response	6%

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