



2017–18 State High School Mathematics Assessments

Achieve collected, from publicly available sources (e.g., state education agency websites), the mathematics assessments states administered statewide in high school in 2017–18.

What changes did states make to mathematics assessments in 2017–18?

Nine states (KY, MT, NE, NC, ND, OK, RI, WV, and WY) administered a new statewide summative mathematics assessment in 2017-18. Of these, three states (OK, RI, and WV) selected the redesigned SAT as their statewide assessment, and two (MT and NE) administered the ACT. NC administered the pre-ACT to all students. ND has a federal waiver to allow districts to select the ACT in lieu of the statewide summative assessment. Three states (KY, ND, and WY) administered new state-developed assessments in spring 2018.

Which assessments did students take in 2017–18?

Twenty-six states administered either the ACT or the SAT in high school. **Twenty-six states** administered a state-developed assessment in math, and **eleven** administered an assessment developed by the Partnership for Assessment of Readiness for College and Careers (PARCC) or Smarter Balanced Assessment Consortium.

- **Fourteen states** (AR, HI, KY, LA, MS, MO, MT, NC, NE, ND, SC, TN, UT, and WI) administered the ACT to all high school students this spring. Of these, **three states** (MT, NE, and WI) used the ACT as their only mathematics exam. All others administered the ACT in addition to another statewide test. Ohio provided students the option of taking either the ACT or the SAT. North Dakota, pursuant to a federal waiver, allows individual districts to administer the ACT in lieu of the statewide summative assessment, and administered the ACT to all students.
- **Eleven states** (CO, CT, DE, DC, IL, ME, MI, NH, OK, RI, and WV) administered the SAT to all high school students in 2017-18. Of these, **eight states** (CO, CT, DE, IL, ME, NH, RI, and WV) used the SAT as their only mathematics exam. Oklahoma selected SAT as its statewide summative assessment but allows individual districts to choose to administer the ACT to all students.
- Ohio required that all students take a college entrance exam in high school, and districts had the option of administering either the ACT or the SAT.
- **Seven states** (CA, HI, ID, OR, SD, VT, and WA) assessed students in mathematics using Smarter Balanced, while **four states** (DC, MD, NJ, and NM) administered a PARCC assessment in mathematics.

Do students have to pass these assessments to graduate?

For the graduating class of 2018, there are **nineteen states** that have student stakes tied to an assessment – **six states** factor student scores into course grades and in **thirteen states** students must pass an assessment to graduate. **Thirty-two states** have no assessment stakes for students in the class of 2018.

A few considerations to keep in mind when reviewing this table:

- As states phase in new assessments, some are introducing the assessments by cohort, e.g., the class of 2018 (the more common approach for comprehensive assessments), and others are introducing the assessments by school year, e.g., students who take an Algebra I course in 2017–18 take the Algebra I assessment, regardless of what year they will graduate (the more common approach for end-of- course assessments).
- In states that administer EOC assessments, the expectation is that a student will take the EOC assessment when the student completes the course. In other words, students take the appropriate EOCs for the ELA and mathematics courses in which the student is enrolled. In states where assessments are classified as “only students who elect to take the course,” the course itself is not a graduation requirement, but the state administers a statewide assessment for students who elect to enroll in the course.
- Regarding student stakes, states have different policies for how much such tests matter for students or whether there are stakes attached. Most commonly, students are either required to achieve a passing score on an assessment or suite of assessments to graduate or the assessment results are factored into a student’s course grade. Almost all states that require students to achieve a passing score to graduate offer students alternate routes to meeting the requirement if they are unable to meet the passing score on the assessments.



	2017-18 High School Mathematics Assessments	Grade taken	Which students take the assessment	Student stakes (Factors into course grades OR students must pass assessment to graduate)	Change from 2016–17 to 2017–18	Additional Notes
AL	ACT plus Writing	Grade 11	All students	No	No	
	ACT WorkKeys	Grade 12	All students	No	No	
AK	Performance Evaluation for Alaska’s Schools (PEAKS)	Grades 9 and 10	All students	No	No	
AZ	AzMERIT EOC in Algebra 1	EOC	All students	No	No	Assessment administration: AzMERIT EOC in Algebra 2 is administered only to students who elect to take the course.
	AZMERIT EOC in Geometry	EOC	All students	No	No	
	AzMERIT EOC in Algebra 2	EOC	All students*	No	No	
AR	ACT Aspire Early High School	Grades 9 and 10	All students	No	No	
	ACT	Grade 11	Optional Assessment	No	No	
CA	California Assessment of Student Performance and Progress (CASPP) Smarter Balanced (Mathematics)	Grade 11	All students	No	No	
CO	PSAT	Grades 9 and 10	All students	No	No	
	SAT	Grade 11	All students	No	No	
CT	SAT	Grade 11	All students	No	No	
DC	PARCC Algebra I/Integrated I EOC	EOC	Local Option	No	No	Assessment Administration: It will be a local option in 2017-18 to administer the PARCC Algebra II/Integrated Math III EOC assessments. DC’s required high school mathematics assessments are Geometry or Integrated Math II.
	PARCC Geometry/Integrated	EOC	All Students	No	No	
	PARCC Algebra II/Integrated Math III EOC	EOC	Local Option	No	No	
	SAT	Grades 11 and 12	All eligible students	No	Yes	
DE	PSAT	Grade 10	All students	No	No	
	SAT	Grade 11	All students	No	No	
FL	FSA Algebra I EOC	EOC	All students	Yes	No	Student stakes: Florida students must pass the English 10



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	FSA Geometry EOC	EOC	Only students who elect to take the course	Yes	No	FSA and Algebra I EOC to graduate. Beginning with students entering grade 9 in 2014-15, to qualify for a scholar diploma designation on a standard high school diploma, a student must earn a passing score on the Geometry and Algebra II EOCs (as well as Biology and U.S. History). Source
GA	Georgia Milestones Assessment System Coordinate Algebra or Algebra I EOC	EOC	All students	Score factored into course grade	No	
	Georgia Milestones Assessment System Analytic Geometry or Geometry EOC	EOC	All students	Score factored into course grade	No	
HI	Smarter Balanced (Mathematics)	Grade 11	All students	No	No	
	Algebra I EOC	EOC	Local Option	Score factored into course grade	No	
	Algebra II EOC	EOC	Local Option	Score factored into course grade	No	
	ACT plus writing	Grade 11	All students	No	No	
ID	Idaho Standards Achievement Tests (ISATs) (Smarter Balanced)	Grade 10	All students	No	No	
IL	SAT	Grade 11	All students	No	No	
IN	Indiana Statewide Testing for Educational Progress Plus (ISTEP+) aligned to Indiana State Standards ECA in Grade 10 Mathematics	Grade 10	All students	Passing score required to graduate beginning with grade 10 students in 2016-17	No	Student stakes: In 2015-16, the ISTEP+ Grade 10 Assessment (E/LA and Math) became the state’s accountability exam. The ECAs (aligned to the IAS 2000 Algebra I, 2006 English 10 standards) will be available for retakes through the 2018-19 school year. Source .
IA	Iowa Assessments (Mathematics)	Grade 11	All students	No	No	
KS	Kansas Assessment Program (KAP) – Mathematics	Grade 10	All students	No	No	
KY	Kentucky End-of-Course Field Test – Algebra II Algebra II EOC	EOC	All students	No	Yes	Field Test: The EOC field tests will not produce student scores or performance levels; therefore, test results will not be



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	ACT	Grade 11	All students	No	No	included in public reporting for Fall 2018. Career Ready Assessment: ACT WorkKeys or KOSSA are optional for the state accountability system, but students on a career pathway may be required to participate in one or more of these assessments due to local policy.
	ACT WorkKeys or KOSSA	High School	Local Option	No	No	
LA	Algebra I EOC	EOC	All students	Score factored into course grade	No	Student stakes: EOCs comprise between 15 percent and 30 percent of the student’s final grade in the subject. To earn a standard high school diploma, students must earn a score of Fair or above on three EOCs, including one in each category — Algebra I or Geometry, English II or English III, and Biology or U.S. History. Source
	Geometry EOC	EOC	Only students who elect to take the course	Score factored into course grade	No	
	ACT	Grade 11	All students	No	No	
	ACT WorkKeys	Grade 11	Primarily for students in grade 11 who are on track for a Jump Start Diploma	No	No	
ME	SAT	Grade 11	All students	No	No	
MD	PARCC Algebra I EOC	EOC	All students	See note	No	Student stakes: In ELA and math, students graduating in 2018 only had to participate in the MHSA PARCC English 10 and Algebra I assessments. The Class of 2019-2023 need a passing score of 725 on the MHSA English 10 and MHSA Algebra I. Students graduating from high school in 2023-2024, who are first time ninth graders in 2020-2021 and beyond, need a passing score of 750.
	PARCC Geometry EOC	EOC	Only students who elect to take the course	No	No	
	PARCC Algebra II EOC	EOC	Only students who elect to take the course	No	No	
MA	Massachusetts Comprehensive Assessment System (MCAS) - Math	Grade 10	All students	Passing score required to graduate	No	Student stakes: All Massachusetts high school students through at least the class of 2019 must continue to pass the grade 10 high school MCAS tests in ELA and Mathematics to satisfy the state graduation requirement.
MI	Michigan Merit Exam (MME) (SAT with Essay, ACT WorkKeys)	Grade 11	All students	No	No	Assessment administration: The Michigan Merit Examination (Grade 11) is comprised of the SAT with Essay, ACT WorkKeys, and M-STEP summative assessments science and social studies. Source
	PSAT	Grades 9 and 10	All students	No	No	



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MN	Minnesota Comprehensive Assessments (MCA) math	Grade 11	All students	No	No	
MS	Mississippi Academic Assessment Program (MAAP) - Algebra I	EOC	All students	Score factored into course grade	No	Student Stakes: Starting in the 2016-2017 school year, MAAP scores constituted 25 percent of a student's final grade in the applicable course. Source
	ACT	Grade 11	All students	No	No	
MO	Algebra I EOC	EOC	All students	No	No	Assessment administration: For students who complete the Algebra I EOC assessment prior to high school, Algebra II is the required high school mathematics assessment for accountability purposes.
	Geometry EOC	EOC	Local Option	No	No	
	Algebra II EOC	EOC	Local Option	No	No	
	ACT	Grade 11	All students	No	No	
MT	ACT plus writing	Grade 11	All students	No	No	Assessment Administration: ACT becomes the new high school assessment in 2016-17.
NE	ACT	Grade 11	All students	No	Yes	Assessment Administration: ACT becomes the new assessment for Grade 11 in 2017-18.
NV	Math I EOC (focus on algebra I)	EOC	All students	See note	No	Student Stakes: The State Board of Education adopted a phased implementation of EOC finals. In the 2017-18 school year, there is no percentage requirement and districts have the discretion to set a percentage of the student's final grade if they choose to. In the 2018-19 school year, the EOCs count for 10% of course grade; in the 2019-20 school year, the EOCs count for 15% of course grade; and for the 2020-21 school year and beyond, the EOCs count for 20% of course grade.
	Math II EOC (focus on geometry)	EOC	All students	See note	No	
	Integrated Mathematics I	EOC	All students	See note	No	
	Integrated Mathematics II	EOC	All students	See note	No	
	ACT plus Writing	Grade 11	All students	No	No	
NH	SAT	Grade 11	All students	No	No	Assessment Administration: NH also has approval for their PACE pilot assessment program.
NJ	PARCC Algebra I EOC	EOC	All students	See note	No	Student stakes: For the classes of 2016, 2017, 2018, and 2019, students will be able to satisfy the state requirements of demonstrating proficiency in math in several ways. For math, students may achieve a passing score on PARCC Algebra I, Geometry or Algebra II <i>or</i> achieve a passing score on a Substitute Competency Test <i>or</i> meet the criteria of the NJDOE Portfolio Appeal. Additional guidance can be found here .
	PARCC Geometry EOC	EOC	All students	See note	No	
	PARCC Algebra II EOC	EOC	Only students who elect to take the course	See note	No	



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NM	PARCC Algebra I EOC	EOC	All students	See note	No	<p>Assessment Administration: Students in grades 9–11 must take the PARCC math test that aligns to the course in which they are enrolled, with the following exception: students concurrently enrolled in two PARCC aligned math courses must take one PARCC test but may take both.</p> <p>Student stakes: In order to receive a standard diploma, students must pass: PARCC Algebra II with at least a score of 725 (Performance Level 3) or PARCC Geometry with at least a score of 725 (Performance Level 3) or PARCC Integrated Mathematics II with at least a score of 725 (Performance Level 3) or PARCC Integrated Mathematics III with at least a score of 725 (Performance Level 3).</p>
	PARCC Geometry/Integrated Mathematics II EOC	EOC	All students	See note	No	
	PARCC Algebra II/Integrated Mathematics III EOC	EOC	All students*	See note	No	
NY	Regents Algebra I Exam	EOC	See note	Passing score required to graduate	No	<p>Student Stakes: All students must take and pass five Regents exams in ELA, math, social studies, science, and one pathway assessment.</p>
	Regents Algebra II Exam	EOC	See note	See note	No	
	Regents Geometry Exam	EOC	See note	See note	No	
NC	North Carolina READY CCSS- aligned EOC in Math I	EOC	All students	Score factored into course grade	No	
	PreACT	Grade 10	All students	No	Yes	
	ACT	Grade 11	All students	No	No	
	ACT WorkKeys	Grade 11	Seniors who are Career and Technical Education (CTE) concentrators	No	No	
ND	North Dakota State Assessment (NDSA)	Grade 11	All students (see note)	No	Yes	<p>Assessment Administration: The ACT and Workkeys is administered to all students. North Dakota also gives districts an option to use grade 11 ACT in lieu of grade 11 NDSA for high school accountability assessments in ELA and Math.</p>
	ACT/WorkKeys	Grade 11	All students	No	No	
OH	ACT or SAT	Grade 11	Local Option	No	No	<p>Assessment Administration: Districts will select either the ACT or SAT to administer each school year.</p> <p>Student stakes: Beginning with the Class of 2018,</p>



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	Algebra I/Integrated Mathematics I	EOC	All students	See note	No	students in Ohio earn points toward graduation on seven end-of-course exams: English I and II, Algebra I/Integrated Math I, Geometry/Integrated Math II, physical science, American history and American government. With few exceptions, students must accumulate a minimum number of points from scores on their end of course exams to become eligible for a diploma. Source .
	Geometry/Integrated Mathematics II	EOC	All students	See note	No	
OK	SAT	Grade 10	All students	No	Yes	Assessment Administration: For the 2017-18 school year, Oklahoma will use the SAT as the state assessment. Oklahoma will allow LEAs to choose the ACT, a locally selected, nationally recognized high school assessment as allowed under section 1111(b)(2)(H), in place of the SAT state assessment in reading/language arts and mathematics in high school for accountability purposes in spring 2018.
OR	Smarter Balanced (Mathematics)	Grade 11	All students	Passing score required to graduate (see note)	No	Student stakes: In Oregon, there are multiple ways students may demonstrate the Essential Skills graduation requirements; students are not required to pass the state test (Smarter Balanced) in order to graduate, though achieving a passing score on these statewide assessments is one way to fulfill the requirements. Source
PA	Keystone Exam in Algebra I	EOC	All students	No – see note	No	Student stakes: Gov. Wolf signed SB 880 (2016), which delays using the Keystone Exams in Literature, Algebra I and biology to graduate until the class of 2019. Previously, the stakes were to begin with class of 2017.
RI	SAT	Grade 11	All students	No	Yes	
	PSAT	Grade 10	All students	No	Yes	
SC	End of Course Examination Program (EOCEP) in Algebra I	EOC	All students	Score factored into course grade	No	Student Stakes: EOCEP examination scores count 20 percent in the calculation of the student’s final grade in gateway courses. Defined gateway courses currently include the following courses or courses with other names and activity codes in which the same academic standards are taught: Algebra 1, Intermediate Algebra, Biology 1, English 1, and United States History and the Constitution.
	ACT	Grade 11	All students	No	No	
	ACT WorkKeys	Grade 11	All students	No	No	



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SD	Smarter Balanced (Mathematics)	Grade 11	All students	No	No	
TN	Algebra I/Integrated Math I EOC	EOC	All students	District option whether to factor score into course grade	No	Student stakes: S 285/HB 36 (2015) removes the requirement that grading policies of local boards of education must include student scores in a TCAP subject area as part of the student's grade in that subject area; permits a local board to have such policy if it so desires.
	Geometry/Integrated Math II EOC	EOC	All students	District option whether to factor score into course grade	No	
	Algebra II/Integrated Math III EOC	EOC	All students	District option whether to factor score into course grade	No	
	ACT	Grade 11	All students	No	No	
TX	STAAR EOC in Algebra I	EOC	All students	Passing score required to graduate	No	Assessment Administration: Beginning in spring 2016, STAAR English III and Algebra II will be available for districts to administer as optional assessments. Student stakes: Beginning with the class of 2015, students must pass the STAAR EOCs in English I and English II to graduate.
	STAAR EOC in Algebra II	EOC	District option	No	No	
UT	SAGE EOC in Secondary (Integrated) Math I	EOC	All students	No	No	
	SAGE EOC in Secondary (Integrated) Math II	EOC	All students	No	No	
	SAGE EOC in Secondary (Integrated) Math III	EOC	All students*	No	No	
	ACT	Grade 11	All students	No	No	
VT	Smarter Balanced (Mathematics)	Grade 9	All students	No	No	Assessment Administration: Moved from grade 11 to grade 9 for 2017-18.
VA	Algebra I Standards of Learning (SOL)	EOC	All students	Passing score required to graduate	No	Student stakes: To graduate with a Standard Diploma, students must earn at least six verified credits by passing end- of-course SOL tests or other assessments approved by
	Geometry SOL	EOC	Only students who elect	See note	No	



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Algebra II SOL	EOC	Only students who elect to take the course	See note	No	the State Board of Education, which must include two verified credits in English and one verified credit in math. Students who earn an Advanced Studies Diploma must earn at least nine verified credits, including two verified credits in English and two verified credits in math.
WA Smarter Balanced (Mathematics)	Grade 11	All students	See note	No	Student stakes: EOC exams in Algebra 1/Integrated Math 1 and Geometry/Integrated Math 2 are based on previous Washington State Learning Standards in math. EOC exit exams are based on updated Washington State Learning Standards (Common Core), beginning in school year 2014-15. These EOC assessments are available through the class of 2018 as one way for students to meet the state’s high-stakes graduation requirement in math. Beginning with the class of 2019, the state will use the Smarter Balanced exam for graduation.
	Algebra I/Integrated I EOC Exit Exam based on the CCSS	All students	See note	No	
	Geometry/Integrated Math II EOC Exit Exam based on the CCSS	All students	See note	No	
WV SAT	Grade 11	All students	No	No	
WI ACT Aspire Early High School	Grades 9 and 10	All students	No	No	
	ACT plus Writing	Grade 11	All students	No	
WY Wyoming Test of Proficiency and Progress (WY-TOPP)	Grades 9 and 10	All students	No	Yes	
	ACT plus Writing	Grade 11	All students	No	

Source: These data are based on the Achieve’s ongoing monitoring of states’ academic standards, graduation requirements, assessments and accountability systems. Updates to the table will be made on an ongoing basis as states’ assessments and related policies evolve.

*All students in these states are automatically enrolled in a mathematics course sequence that includes Algebra II, but with parental permission a student may modify (i.e., lessen) the Algebra II/Integrated Mathematics III requirement or its equivalent course content or opt into another state diploma that includes a different set of course requirements that does not include Algebra II/ Integrated Mathematics III. Students in these states who modify the mathematics requirement will not be assessed using the Algebra II/Integrated Mathematics III EOC (if one exists in the state).