

## STRUCTURAL CHARACTERISTICS OF MARYLAND MATHEMATICS ASSESSMENTS

<b>Test</b>	<b>Framework</b>	<b>Materials Examined</b>	<b>Time</b>	<b>Number of Items</b>	<b>Tools</b>	<b>Purpose</b>	<b>Content as Specified in Test Specifications</b>
High school assessment algebra	state achievement, end-of-course	prototype items	to be determined	multiple choice, open-ended	calculator	monitor student achievement toward state-approved content standards	elementary algebra
High school assessment geometry	state achievement, end-of-course	prototype items	to be determined	multiple choice, open-ended	calculator	monitor student achievement toward state-approved content standards	geometry
ACT	college admissions	full sample form	60 minutes	60 multiple choice	calculator	selection of students for higher education	pre-algebra (23%), plane geometry (23%), elementary algebra (17%), intermediate algebra (15%), coordinate geometry (15%), and trigonometry (7%)
SAT I	college admissions	full sample form	75 minutes	35 multiple choice; 15 quantitative comparison; 10 grid-in	calculator	selection of students for higher education	arithmetic (13%), algebra (35%), geometry (26%), and other (26%)
SAT II-level IC	college admissions	full sample form	60 minutes	50 multiple choice	calculator	selection of students for higher education	algebra (30%), geometry 38% (specifically, plane Euclidean (20%), coordinate (12%), and three-dimensional (6%)), trigonometry (8%), functions (12%), statistics and probability (6%), and miscellaneous (6%)

SAT II-level IIC	college admissions	full sample form	60 minutes	50 multiple choice	calculator	selection of students for higher education	algebra (18%), geometry 20% (specifically, coordinate (12%) and three-dimensional (8%)), trigonometry (20%), functions (24%), statistics and probability (6%), and miscellaneous (12%)
ACCUPLACER elementary algebra	college-placement, end-of-course	full sample paper-and-pencil form	varies by examinee	number of multiple choice items given depends on demonstrated proficiency level	none	assess student proficiency in elementary algebra	signed numbers and rational numbers, algebraic expressions, equations, inequalities, and word problems
Towson State University math placement test	college placement	sample items	60 minutes	number of multiple choice items given depends on demonstrated proficiency level	calculator	placement of students into appropriate mathematics course	arithmetic, elementary algebra, advanced algebra and trigonometry
University of Maryland math placement test	college placement	sample items	70 minutes	63 multiple choice	calculator	placement of students into appropriate mathematics course	arithmetic, elementary algebra, advanced algebra and trigonometry