BEYOND ONLINE TESTING

Reach your students' potential through our trusted technology and next-generation questions

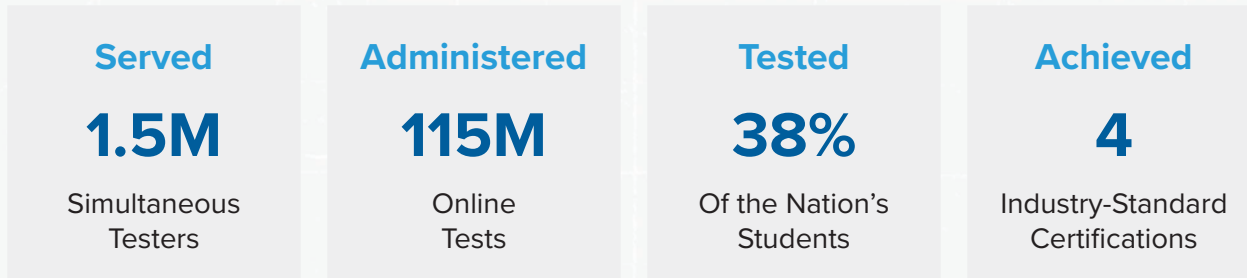Cambium Assessment

THE LEADER IN ONLINE TESTING

Cambium Assessment's superior technology and next-generation questions ensure our tests are valid, innovative, and informative for teachers and students alike.

We know what it takes to design and evolve large-scale assessment programs that advance how teachers customize instruction, and how students learn. Our services cover all areas of assessment – from developing tests, delivering them, and scoring and reporting them.

Our standards-based adaptive testing algorithm ensures that every student is tested on the full breadth and depth of content standards while it adapts test item difficulty to student skill level. This algorithm was the first of its kind to have passed peer review in the United States.

In 2023, Cambium Assessment

Served	Administered	Tested	Achieved
1.5M	**115M**	**38%**	**4**
Simultaneous Testers	Online Tests	Of the Nation's Students	Industry-Standard Certifications

Our innovation and entrepreneurial spirit has enabled us to go beyond technological boundaries, making us the leader in the assessment industry.

WHY STATES CHOOSE US

For over sixteen years, Cambium Assessment has served at the forefront of the online assessment industry, and we continue to grow. Our continuum of capabilities and services has enabled numerous states and education consortia to transition from paper-pencil testing into online-assessment systems almost instantaneously. In the 2022–2023 school year alone, we delivered more than 115.8 million tests to over a third of the nation's students in 26 states and jurisdictions. All of these tests were processed with the rapid scoring and reporting turnaround essential for educators to identify their students' strengths and needs promptly.

Valid and Innovative Tests

Our tests collect more information on what each student knows.

Empowering Teachers and Students

Through rapid scoring and timely reporting mechanisms, our systems free up teachers to teach and students to learn.

Groundbreaking Work

We push the boundaries of measuring student performance using Machine Learning.

ISO Certified

We are currently certified on ISO 27001 standards.

HOW WE CAN HELP

Technology

Our technology remains unprecedented in the assessment industry. We have the most advanced features of any online testing, including:

- Systems that are infinitely scalable.
- Machine scoring methods that are driven by artificial intelligence.
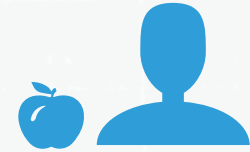- Processes that use intensive algorithmic computing.

Psychometrics

Cambium Assessment offers psychometric and statistical services that are unparalleled in quality and innovation in the industry. The integration of psychometrics with statistics and sampling sets us apart from others.

Test and Content Development

Developing standards-based tests requires close collaboration among knowledgeable test developers, state curriculum experts, and teachers. Cambium Assessment brings the staff and infrastructure together to design rich and diverse assessments and next-generation items (questions) that provide teachers more specific information about what students know in less time than traditional items.

Reporting and Instructional Support

Cambium Assessment's reporting capabilities provide relevant, interactive, and actionable data about what a student knows. The reports are shared with administrators, teachers, students, and families to support instruction and success.
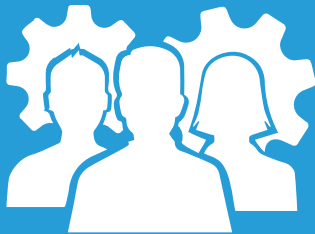
WHAT WE DO

Technology

Our technology remains unprecedented in the assessment industry. We have successfully delivered and reported online tests since 2007. At Cambium Assessment we serve 26 states and territories, including 38% of the nation's public school student population.

Registration
powered by **TIDE**

- Securely manage student and user registration
- Highly interoperable. TIDE integrates with various state and district student systems

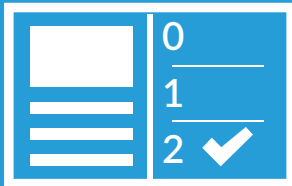### Item Authoring and Tracking
powered by **ITS and IAT**

- Securely author and manage development of innovative items
- Customize item workflows to streamline the test building process

Test Delivery
powered by **TDS**

- User-friendly, powerful and innovative
- Infinitely scalable without requiring schools to add more hardware

Test Scoring

- Engineered collaboratively with our computer scientists and psychometricians

- Designed to be fast, responsive, and immediate

Reporting

- Transforms student data into intuitive reports for educators and families

- Uses advanced statistics and engineering techniques to compute data accurately and meaningfully

Machine Learning

- Empowers items with machine-scorable rubrics

- Uses most advanced artificial intelligence methods while ensuring items are scored reliably and validly

We have the most advanced features of any online testing

- ✅ Our systems are infinitely scalable.

- ✅ Our machine scoring methods are driven by artificial intelligence.

- ✅ Our processes use intensive algorithmic computing.

WHAT WE DO

Psychometrics and Test Scoring

Cambium Assessment offers psychometric and statistical services that are unparalleled in quality and innovation in the industry. The integration of psychometrics with statistics and sampling sets us apart from others.

Psychometric Services Alongside Day-to-Day Operations

Our team ensures that our clients benefit from advances in psychometrics. We use scientific sampling for field tests and advanced models for linking and equating to ensure stable test results. We customize our approach to the specific needs of each assessment program to obtain the best possible data and statistics.

Our services include:

- Developing and implementing linking designs for field-test and operational test administrations
- Analyzing field tests and reviewing item data
- Constructing and evaluating test forms
- Calibrating, scaling, and equating test forms
- Developing scoring and reporting specifications
- Designing and conducting standard-setting workshops

We gather student evidence and ensure that all students get fair, accurate, and reliable tests. We combine expertise in sampling and psychometrics to optimize student samples. We also use statistics to accurately reflect the complexities of the sample designs, leading to valid and reliable test results from year to year.

Test Scoring

Our psychometricians work with our computer scientists to design and engineer test scoring systems. While these systems use advanced statistical models to ensure valid and reliable test scores, they are also engineered to be fast and automated.

There is hardly any manual task conducted by the team. As soon as all student responses are completely scored, the test scoring systems dynamically score the student's test. Once the test passes validity checks, the system sends the student's test to the reporting system for immediate availability to teachers.

WHAT WE DO

Test and Content Development

Developing standards-based tests requires close collaboration among knowledgeable test developers, state curriculum experts, and teachers. Cambium Assessment brings the staff and infrastructure to ensure structured reviews that capture every voice in the process. We go beyond summative testing. Our team uses the same knowledge, rigor and infrastructure to create interim and formative tests.

Innovative Item Types

Given the need to assess cognitively complex 21st-century skills, technology-enhanced items are everywhere. But Cambium Assessment takes the technology further. Our third-generation items leverage computing power to guide students through scaffolded, authentic performance tasks. And because the tasks collect data at various points, they provide teachers with highly specific information about what their students know and can do, and they also provide context about precisely what reteaching is warranted for which students.

> *Because these items mirror what students do in the classroom (and are just plain good pedagogy), they are engaging. Because students provide responses as they work toward a final task, they spend less time testing.*

Infrastructure

Our powerful, proprietary Item Tracking System (ITS), ensures smooth, secure development of every item we create, from inception through internal, client, fairness, and data reviews to final publication. Item Authoring Tool (IAT) our sophisticated, industry-leading authoring tool, allows test developers to create items right in the banking system, with access to the industry's broadest set of available interactions. Within the platform, they also create scoring assertions linked to evidence statements, guaranteeing that all of Cambium Assessment's items embody evidence-centered design.

Our Services

Test blueprint and item specification development

We work closely with our state counterparts to customize test blueprints that ensure tests provide a complex, complete picture of each student's proficiency and that items align tightly to next-generation, college- and career-readiness standards.

Form construction

Content experts work closely with psychometricians to ensure that test forms are carefully aligned to blueprints as well as equivalent to each other and to field test forms, guaranteeing reliability and validity. Developers also care deeply about creating forms that make for an engaging test-taking experience for students, and they strive to balance topics and avoid redundancy.

Development of supporting materials for item release

On a custom basis, Cambium Assessment provides annotated materials for public release of items. We write rationales for all options for multiple choice questions—what makes the right answer right and the wrong answers wrong—and annotate hand-scored anchor papers for constructed-response items.

Item development and review

Our test developers are experts in their fields and master test question writers.

> *Each item undergoes many layers of internal review before we present it to our clients. Post client signoff, items undergo yet further scrutiny, including that by educators in the field and auditors trained in fairness and sensitivity best practices.*

Client committee support and liaison with rangefinding services

We have the staff to fully support our clients when it comes to content, fairness, and rangefinding committee meetings. As educators themselves, our developers connect with committee members, facilitating student-focused collaboration.

Development and review of scoring rubrics

Within IAT, item developers create detailed, precise, highly specific, and usable scoring rubrics for constructed-response items, anticipating a variety of student answers.

WHAT WE DO

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Reporting and Instructional Support

Cambium Assessment's reporting capabilities provide relevant, actionable data that arrive quickly at schools to support instruction and success.

Reporting

Cambium Assessment's reporting capabilities provide relevant, actionable data that arrive quickly at schools to support instruction and success. The reporting system has many powerful features. But simply put, it provides:

> **Nothing about our Reporting System is static. Users regularly interact with data that is timely and up to date.**

An Integrated System

With minimal to no training, teachers can use our system to help them teach their students. This is a centralized system for all tests, across all subjects, grades, and content areas. All tests can be made available on a single platform. This includes summatives, interims, benchmarks, and even educator-authored tests.

Immediate Results

We provide immediate scores as students submit their tests, even for writing and assessments with extended-response options.

Longitudinal Data

The system also has a powerful longitudinal reporting feature that collects and reports the entire test history of a student and can provide test progressions across different tests, such as formatives, interims, and summatives. The system generates reports showing the progress of a student or an institution over time.

An Interactive Experience

Nothing about our Reporting System is static or one-dimensional. Users regularly interact with data that is timely and kept up to date. Results for test data will be available for individual student level as well as class, teacher, school, district and state level.

The reporting system also allows schools and districts to batch-print PDF files of individual student reports for delivery to families.

Instructional Support

Reporting does not stop at providing reports. It continues to provide instructional resources to teachers to further empower their teaching. The system aligns rich instructional resources, such as lesson plans or interpretive guides, directly to the performance of a student or a roster of students that performed in a similar way.

WHAT WE DO

Accessibility

We are dedicated to serving all people of diverse backgrounds and learning needs. Our systems seek to provide access for all. Cambium Assessment is committed to providing services to everyone, regardless of how they access these services.

Our Approach to Accessibility

The Same Platform Accessed by All

Millions of students access our Test Delivery System. It is the same platform, whether a student is taking a summative test, an interim test, an alternate assessment, or an English language proficiency test. Thousands of educators and teachers access our TIDE Registration System, Reporting, and our other Assessment systems. Accessibility therefore is no longer an option; it is a must-have.

> *Our systems are currently certified on WCAG 2.0 AA standards. But this certification is just one demonstration of our commitment to accessibility.*

Before we write any piece of code to build a feature, we require it to be accessible. We keep Universal Design principles and WCAG standards in mind from the beginning and throughout our software lifecycle. In fact, we continue to be the first and only organization delivering online, computer-adaptive Braille tests.

Accessibility on the Test Delivery System

Ever since we conceptualized and designed our Test Delivery System, we knew we had to administer fair and valid assessments to all students. This includes students with disabilities or impairments of some kind, as well as students whose native language is not the primary one on the test. As we create and build more innovations around student testing and learning, accessibility remains a top priority.

Cambium Assessment's Test Delivery System offers the industry's most robust array of accommodations, embedded supports, and testing tools. They can be made available either universally or by designation to authorized users. Embedded supports are supplied to any student who wants them, while accommodations are offered only when deemed appropriate to improve access for the individual student.

CONTACT US

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