



# ALSM

Assessment & Learning  
For Success In Mathematics

## DIAGNOSTIC ASSESSMENTS

Students complete a carefully designed diagnostic assessment that identifies their strengths and areas for improvement in key mathematics topics.

10  
years

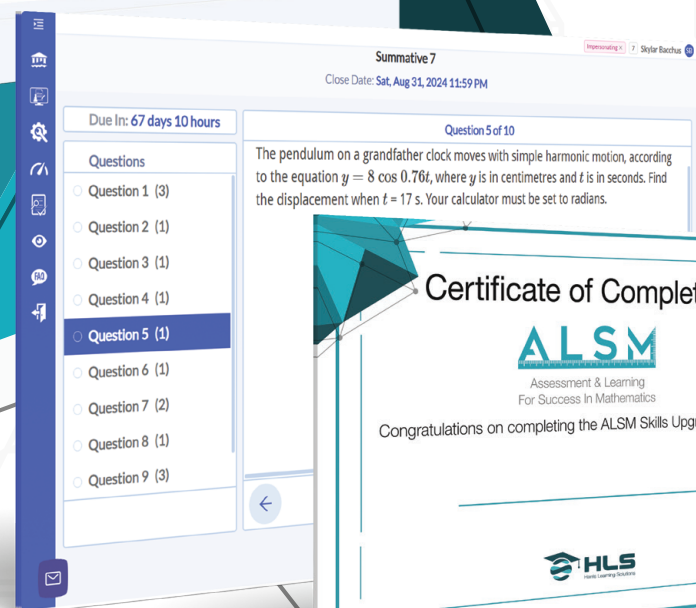
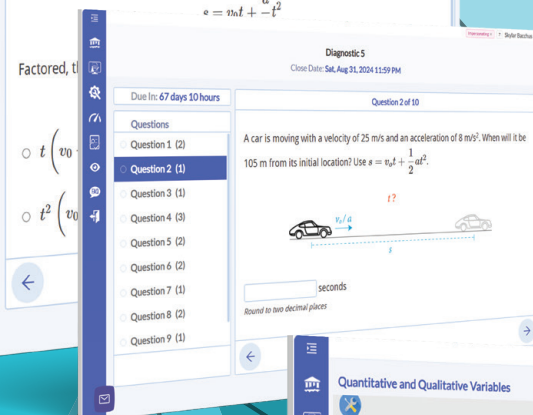
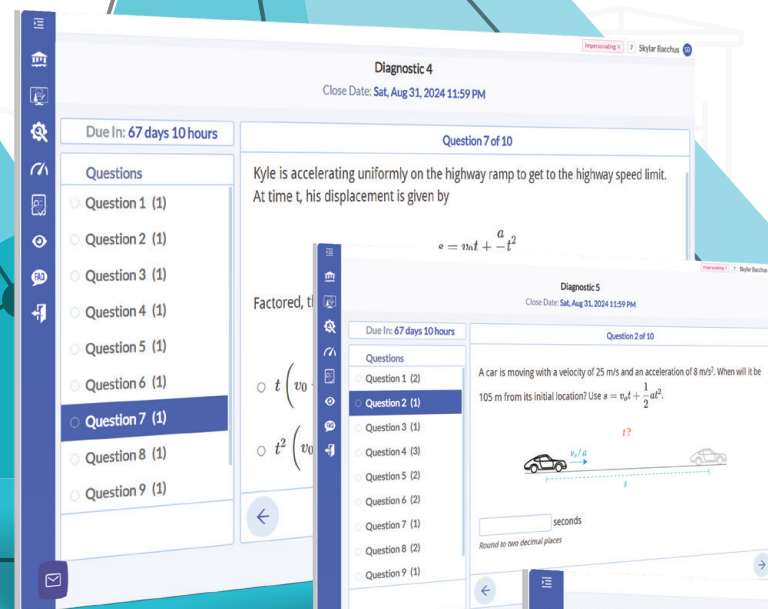
Built upon 10 years of research and deliberation, initiated in 2004, by the College Mathematics Project (CMP) and the subsequent College Student Achievement Project (CSAP).

## UPGRADING MODULES

Students elevate their skills by completing modules of personalized interactive lessons that provide instant feedback and support throughout the **assessment for learning** experience.

## SUMMATIVE ASSESSMENTS

Demonstrate Proficiency & Ensure Mastery of Skills  
A summative assessment enables students to demonstrate their proficiency and ensure mastery of their mathematical skills to move forward with their studies confidently.



24  
Colleges

The project included all 24 publicly funded colleges (22 English language and 2 French language colleges) and 72 district school boards in Ontario and was funded by the Ministry of Education and the Ministry of Advanced Education and Skills Development (formerly known as the Ministry of Training, Colleges and Universities).



## TEST DESIGN

The assessment features a variety of response types from students, with each test being algorithmically generated. This dynamic design ensures that every student receives a unique set of questions tailored to their proficiency level and learning needs.



The assessment framework includes two important dimensions: mathematical content topics and performance expectations, corresponding to the broader goals of mathematics teaching and learning - knowing, applying and reasoning.

Instructors can streamline the process by choosing from two options: either selecting existing assessment designs to provide to students, or opting to select from our research-backed question bank, which boasts over 4,000 questions.

## MASTERY RESOURCES

Vretta-Lyryx's mastery-based resources utilize cutting-edge, award-winning interactive pedagogies, proven to aid students in mastering fundamental mathematics concepts.



These concepts are broken down micro-steps, allowing students to easily and effectively visualize, conceptualize and comprehend mathematics.

Whether addressing basic math skills or tackling advanced concepts, the learning experience is customizable to meet precise needs, guaranteeing thorough coverage of mathematical skills.

## DASHBOARDS AND SETTINGS

Dashboards provide instructors with actionable insights into student strengths and areas for improvement through real-time data, enabling tailored teaching methods and interventions for improved student outcomes over time.



Assessments can be adjusted to showcase progressive feedback, tailored to refine student skills, and enhance learning outcomes by focusing on areas for improvement.

Instructors can set up various response methods, granting students the flexibility to submit answers and present their work using different formats.