

# At a Glance

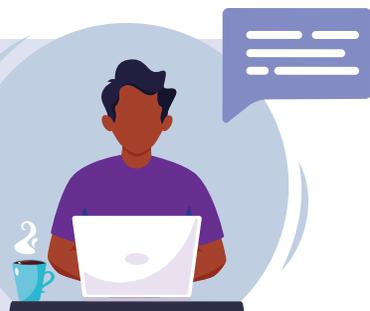
## Grade 9 Assessment of Mathematics



### What Is Assessed?

- Student learning of the knowledge and skills defined in the [Ontario Grade 9 mathematics curriculum \(2021\)](#)
- Five strands covered: Number, Algebra, Data, Geometry and Measurement, and Financial Literacy
- No additional preparation required, as *Ontario Curriculum* content is covered in regular classroom instruction

01



02

### What Is the Design of the Assessment?

- Online assessment using a [multi-stage computer adaptive testing model](#)<sup>1,2</sup>
- Two sessions totalling 50 questions<sup>3</sup>
- Introductory session to familiarize students with tools, resources and types of questions
- Breathing and visualization activities to help students stay calm and focused
- Voluntary Student Questionnaire to collect information about students' attitudes and perceptions with respect to mathematics, transferable skills and their learning environment.

<sup>1</sup> For those who cannot complete an assessment online, an alternative version with various formats is available.  
<sup>2</sup> A multi-stage computer adaptive testing model adapts to the individual student's performance as the student progresses through the stages of the assessment.  
<sup>3</sup> Additionally, the assessment includes field-test questions that are not used in determining the student results.



### How Is the Assessment Scored and Reported?

- Automated scoring (computer scored)
- Student's results determined by a statistical method called "Item Response Theory"<sup>4</sup>
- Levels of achievement (Levels 1 to 4) in relation to the provincial standard<sup>5</sup>
- Individual Student Report generated after the student completes the assessment

03

<sup>4</sup> Item Response Theory takes into account the student's responses to the questions and the difficulty of each of these questions. It locates the student's outcome along a continuum of ability in mathematics knowledge and skills (as reflected by achievement Levels 1 to 4).  
<sup>5</sup> The characteristics given for Level 3 in the achievement chart in *The Ontario Curriculum* correspond to the provincial standard for achievement. [Read more.](#)

#### Learn More



Read the [Grade 9 Framework](#)

Watch "[What to Expect on the Grade 9 Assessment of Mathematics](#)"