## Louisiana Guide to End-of-Course Assessment for Geometry

This guide includes:

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- Resources
I. Purpose of Assessment Guide

This document is designed to assist Louisiana educators in understanding the Geometry End-of-Course (EOC) online assessment.

## II. Test Structure

The following table outlines the test structure and suggested testing times for the Geometry EOC test.

| Subtest Description | Number of Items ${ }^{\mathbf{1}}$ | Number of Points | Suggested Testing Times |
| :---: | :---: | :---: | :---: |
| Multiple Choice, No Calculator | 25 | 23 | 60 minutes |
| Constructed-Response, Calculator | 2 | 4 | 40 minutes |
| Multiple Choice, Calculator | 25 | 23 | 60 minutes |
| Totals | $\mathbf{5 2}$ | $\mathbf{5 0}$ | $\mathbf{1 6 0}$ minutes |

[^0]The test is untimed. Although suggested testing times are provided for each session, it is very important that students be given sufficient time to complete the test. Once students have started a test session, they should proceed without interruption until they have completed the session.

## III. Test Design

The Louisiana Mathematics Standards define what students should know and be able to do by the end of the Geometry course. Related standards are organized into clusters, and clusters are combined to form the following domains ${ }^{2}$ : Congruence; Similarity, Right Triangles, and Trigonometry; Circles; Expressing Geometric Properties with Equations; Geometric Measurement and Dimension; and Modeling with Geometry. Each test item is aligned to one or part of one standard.

For the EOC Geometry assessment, test content is prioritized based on whether a standard is considered to be major, supporting, or additional content ${ }^{3}$ for the work of the Geometry course. Major content accounts for $75 \%$ of tested material, while supporting and additional content account for the remaining $25 \%$. Supporting and additional content should be incorporated throughout instruction of the major content. Neglecting any material will leave gaps in student knowledge and cause instructional challenges in future courses. Constructed-response items may cover any content-major, supporting, or additional.

- Major content (green) requires greater emphasis based on the depth of the ideas, mastery time, and/or importance to future mathematics or demands of college and career readiness.
- Supporting content (blue) supports and strengthens areas of major emphasis.
- Additional content (yellow) bridges content from one course to the next, but may not establish tight or explicit connectivity to the major work of a course.

The Geometry EOC Test Design Table contains the following information:

- EOC subscore and domain/domains
- Number of points and percent of points per domain
- Major, supporting, and additional content standards assessed per domain

[^1]
## Geometry EOC Test Design

## Major Conten




## IV. Testing Materials

The Geometry Typing Help has been updated to include how to type complex roots and inverse trigonometric functions. Teachers should incorporate the Typing Help and the Geometry Reference Sheet into their assessments as often as possible so as to prepare students in using these tools. Students should also regularly use the EOC Tests Online Calculator if this is the calculator they will be using on the assessment. Graph paper should be made available for student use throughout the year. The following table identifies the tools available for each session.

| Tool | Provided | Session 1 | Session 2 | Session $\mathbf{3}$ |
| :--- | :--- | :---: | :---: | :---: |
| scratch paper, graph paper, two pencils | by Test Administrator | YES | YES | YES |
| inch ruler, centimeter ruler, and protractor |  | online | YES | YES |
| calculator | online and/or by Test Administrator | NO | YES |  |
| Geometry Typing Help | online and/or by Test Administrator | NO | YES | NO |
| Geometry Reference Sheet | online and/or by Test Administrator | YES | YES | YES |

Note: Students are NOT allowed to use calculators during session 1 unless students have the approved accommodation Assistive Technology and are allowed the use of a calculator.

## V. Calculator Policy

It is recommended that a calculator be made available to each student for instructional and assessment purposes. As with all instructional materials, each individual district and school should determine which calculator best supports its mathematics curriculum and instructional program. It is recommended that grade 9-12 students use a scientific calculator with graphing capabilities. Students are not allowed to share calculators within a test session. Calculator memories should be cleared at the end of each test session.

Calculators not permitted on statewide assessment:

- handheld or laptop computers
- pocket organizers
- calculators with Computer Algebra Systems (CAS) or other symbolic manipulation capabilities
- calculators with paper tape

[^2]- calculators that talk or make noise
- calculators with QWERTY (typewriter-style) keypads
- electronic writing pads or pen input devices
- cell phone calculators


## VI. Resources

## Assessment Resources:

- Geometry Sample Test Items 2013-2014 and Geometry Sample Test Items 2014-2015: include sample items for all parts of the assessment, annotations explaining each item, and authentic student responses representing different score points for the constructed-response section
- Constructed-Response Samples: includes 3 constructed-response items with scoring information
- Achievement Level Descriptors: provides descriptions of what students know and can do at each Geometry achievement level

Instructional Resources:

- 2014 Math High School Guidebook: offers comprehensive information to support teacher in creating yearly, unit, and daily instructional plans for students
- Year Plan-Mathematics Geometry Sample: provides a suggested scope for implementation of curriculum
- Geometry Math Remediation Guide: connects the Geometry standards to middle school prerequisite knowledge
- Geometry Extended Constructed Response Tasks: contains only the Geometry ECR tasks from the 2014 Math High School Guidebook
- Geometry Instructional Tasks: contains only the Geometry instructional tasks from the 2014 Math High School Guidebook
- Unit Plan-Mathematics Geometry Unit 1 Sample: provides a suggested scope for the first instructional unit in Geometry
- EAGLE Sample Test Items: houses a bank of items that can be used for instructional or assessment purposes


## General EOC Resources:

- EOC website: includes information on all aspects of the administration of the EOC tests, which can be accessed through the tabs at the top of the homepage (Some of the materials include announcements about current administrations, such as score report availability, registration dates, etc.; plus test coordinator and technology resources, such as the Test Administration Manual and technology guides.)
- EOC Interpretive Guide: includes an overview of the EOC tests, explanations of the processes for scoring the tests and establishing performance standards, and guidance on how to interpret the various EOC reports
- 2015-16 Louisiana Assessment Calendar: provides information on testing windows for all assessments administered in Louisiana


[^0]:    ${ }^{1}$ Forty-six multiple-choice and one constructed-response items are operational. The other five items are embedded field test items, which may be used to develop new forms.

[^1]:    ${ }^{2}$ Unlike Algebra I, the Geometry course is only composed of standards from one conceptual category (Geometry).
    ${ }^{3}$ The Model Content Frameworks serves as a basis for this determination.

[^2]:    ${ }^{4}$ The ruler and protractor tools may not be available for some questions. If a tool is not available, the green tool button will not appear.

