

2017-2018 CPSD MATHEMATICS PACING GUIDE



Calculus

Canton Public School District
2017-2018 Pacing Guides

Frequently Asked Questions and Guidance

Frequently Asked Questions

1. Where are the district's pacing guides located? What is their purpose?

Pacing guides for the 2017-2018 school year can be found on Canton Public School District's website under Teacher Resources. Pacing guides have been developed for grades K-12 in English Language Arts, Mathematics, Science, and Social Studies.

The district's pacing guides:

- ensure that instruction addresses all of the Mississippi College and Career Readiness Standards for English Language Arts and Mathematics and the Curriculum Frameworks for Social Studies and Science;
- provide consistency district-wide for the pace, rigor, and equity of standards; and,
- address student mobility and the need for uniformity of instruction.

2. How were the pacing guides developed and by whom? What if I would like to suggest a change to the pacing guides?

The pacing guides were developed by teams of teachers with feedback from the district's content staff and administrators. District staff and teachers considered state standards and objectives, state assessment blueprints, and the district's calendar when developing the pacing guides.

ELA and Mathematics content staff will consider changes to the pacing guides twice yearly (at the end of the first semester and at the end of the second semester of each school year). Administrators should compile their teachers' suggestions and submit them to the district's content staff during the week prior to Thanksgiving Break during the first semester and the week prior to

the end of the school year during the second semester. **Revisions will only be considered during these windows.** If warranted, changes will be made to the pacing guides prior to the next semester.

3. How are these pacing guides different from other pacing guides that we have used in the district?

These pacing guides are different because the standards are paced by term rather than by day or week. This gives teachers more flexibility in deciding how and when to teach standards. This format also emphasizes the best practice of recognizing that many standards are ongoing and should be taught throughout the year.

4. What is the best way to interpret the pacing guides?

The pacing guides were developed to be easily understood. Quick explanations for English Language Arts and Mathematics are found below:

English Language Arts

Many of the standards in the College and Career Readiness Standards for English Language Arts are ongoing; in fact, most of them are. With that fact considered, the pacing guides for ELA indicate at what point during the year standards should be introduced (**I**), practiced (**P**), assessed (**A**), and mastered (**M**). Some standards may be assessed during the year to determine students' progress even though they may not be expected to master the standard until later. This reinforces the concept that we should frequently conduct formative assessments to inform instruction and determine which students are in need of intervention. Teachers should use the *Scaffolding Document* to assist in planning lessons and interventions.

Mathematics

The mathematics pacing guides are composed of the standards set forth by the state of Mississippi's College and Career Readiness Standards. Several of these standards are presented during a nine week period for mastery. The district will assess these standards for mastery at the end of the nine week period. District assessments will be comprehensive; therefore, these standards will also be assessed within future district assessments. The Pacing Guides give teachers a list of standards to be covered within a nine week period. The guides do not dictate the order or cluster of how the standards will be taught. Teachers should also use the *Scaffolding Document* to assist in

planning lessons. Please note that there are several new standards added to the MS CCRS for Mathematics this year. These standards may not be found in your textbooks; therefore, these standards will be integrated within the curriculum with other standards that can be clustered together.

5. Are the pacing guides stand-alone documents?

No. The pacing guides are part of a collection of instructional documents to assist teachers in planning instruction and assessments. The other documents that should be used throughout the school year are the Pacing Planning Tool, Quick Calendar, the College and Career Readiness Standards (or frameworks for subjects other than ELA and mathematics), and MDE's scaffolding documents for ELA and mathematics.

The Pacing Planning tool helps teachers make the broad vision of the standards more specific. The Quick Calendar provides teachers with a quick glance of what standards will be covered on any given day in a month. MDE's scaffolding documents for ELA and mathematics provide teachers with guidance on prerequisites for standard mastery, key concepts within standards, and examples of evidence of student mastery. These tools are excellent resources for planning lessons, developing assessments, and identifying points of intervention for struggling students.

The College and Career Readiness Standards and Curriculum Frameworks include the standards or objectives for each grade level as well as the standards or objectives for proceeding and following grade levels. The ELA and Mathematics College and Career Readiness Standards both contain glossaries of terms that are beneficial for teachers.

If you find that you need support in narrowing the focus of the pacing guides, please contact your principal. They have tools that can assist you in making the broad range of the term-based pacing guides more specific.

6. Will the district's assessments be aligned to the standards in the pacing guides?

Our district assessments are designed to provide a snapshot of the learning process throughout the school year. The district's assessments are aligned with the timing and content of the pacing guides. Standards will be assessed according to their

appearance within the term indicated on the pacing guide. Ongoing standards will be assessed at multiple points throughout the year.

7. Whom should I contact if I need assistance with planning lessons using the pacing guides and supporting documents?

Teachers have several options for instructional support within the district. Building principals, instructional specialists, assistant principals, and district content coordinators are available to assist you with instructional planning.

Canton Public Schools'
Suggested Calculus Pacing Guide, 2017 – 2018

1st 9 Weeks	
Unit 1	Limits
Unit 2	Derivatives
Unit 3	Application of Differentiation

2nd 9 Weeks	
Unit 4	Anti-Derivatives
Unit 5	Logarithmic, Exponential, and Other Transcendental Functions

3rd 9 Weeks	
Unit 6	Differential Equations
Unit 7	Applications of Integration
Unit 8	Integration Techniques, L'Hopital's Rule, and Improper Integrals

4th 9 Weeks	
Unit 9	Infinite Series
Unit 10	Conics, Parametric Equations, and Polar Coordinates