

HOUSTON COUNTY SCHOOLS MATHEMATICS DEPARTMENT

8TH GRADE MATHEMATICS 2020-2021

Houston County's system-wide initiatives center around building fully functional, intensely focused professional learning communities in our schools.

This initiative includes a focus on learning which clarifies and monitors essential learning.

Not all content in a given grade or course is emphasized equally in the standards, nor should it be. Some clusters require greater emphasis than others based on the depth of the ideas, the time that they take to master, and/or their importance to future mathematics or the demands of college and career readiness. More time in these areas may also be necessary for students to meet the demands of the Georgia Milestones assessments.

To say that some standards have greater emphasis is **not** to say that anything in the standards can safely be neglected in instruction! Neglecting material will leave gaps in student skill and understanding and may leave students unprepared for the challenges of a later grade. This new guide not only gives calendar pacing at the unit level, but also pacing at the standard level and one of three levels of content, listed below.



PACING GUIDE & TEACHER PLANNER

This summer, groups of math teachers from every middle school in Houston County were invited to meet to identify “Essential Standards.” Teachers considered the content expectations for future units within their grade, for future grades, on state assessments, and in other content areas to determine which standards were “Supporting,” or “Additional.” Their designations are color-coded within the list of standards as below and the included calendar shows approximate within-unit time allocations by standard or cluster.

Essential

Supporting

*Additional

On SharePoint, we amended course materials (including lesson plans, study guides, assessments, and POD's) to reflect the content of greatest emphasis for this math course because of their prioritization of standards.

This document shows where students and teachers should spend the large majority of their time in order to meet the expectations of the standards. It includes a standard-by-standard calendar for teachers to use to plan and allocate teaching/learning time appropriately.

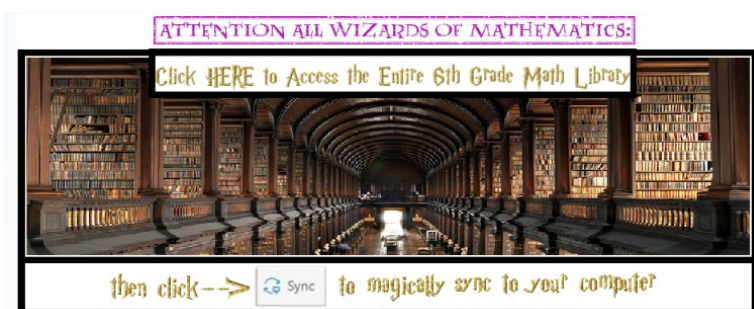
What resources are available for me?

What's on your SharePoint Course page?	<ul style="list-style-type: none"> • Unit Plans • “I Can” Statements with Examples • Unit Assessments • Daily PODs • Lessons and Tasks • Assessment Banks (<i>instructions for ExamView banks after the calendars</i>) • Fluency Unit for RTI • Milestones Resources including Mock Assessments • HRW Teacher/Student Instructions • And much more
Online Textbook	<p>https://my.hrw.com/ Generic login: username: houstoncountyschoolteacher password: Houston1!</p> <p>Each teacher also has a personal account Username: full email address If you don't know your password, use reset password link</p>
Student Weeblys	<p>http://hcbemath.weebly.com/</p>

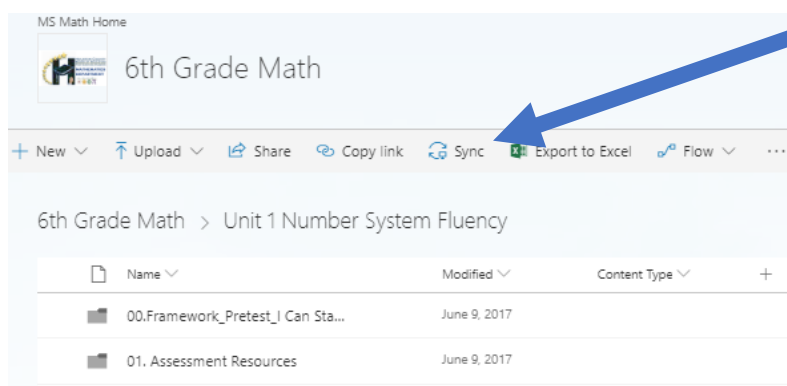
How do I sync the mathematics material to my file library on my desktop?

From Office 365, navigate to > SharePoint > Departments > Teaching & Learning > Math > Grade Band > Course Home.

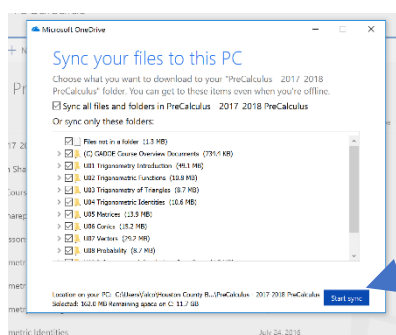
1. Navigate to your course home on SharePoint and click the icon below.



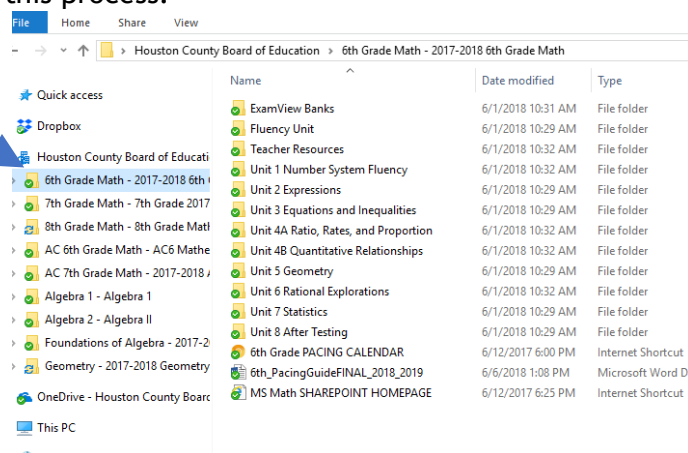
- You are now in your course's document library. Click the Sync Button.



- A window will open and all the folders in this library should be checked. Keep them checked and choose Start sync. ***Note, you may encounter two screens before this in which you choose ALLOW and then must SIGN IN with your HCBE email.



- After a few seconds, you will get notified that the files are syncing to your Houston County BOE One Drive and the files will be located in your file library. These files work like Dropbox and are updated in real time as changes are made by Dr. Rape or Jennifer Farrow. BE SURE YOU SEE GREEN CHECK MARK. This means it is synced and your files are updated. If you open at a later date and do not see your checkmark, repeat this process.



NOTE*** These files are locked for editing and saving to these folders. You may open, edit, and save to your personal files in another file location.

NOTE**** ExamView Tests will NOT open directly from the Houston County Board of Education File Folders. To open, right-click copy and right-click save to a folder on your desktop or My Documents. Then, open the file from this location. A PDF of each test is available for you to preview

-1st Semester

August 4 - December 18

September 7 (Labor Day Holiday); October 13-16 (Fall Holiday); November 11 (Veteran's Day); November 23-27 (Thanksgiving Holiday)

8th Grade Georgia Standards of Excellence

2020-2021 Pacing Guide

¹Essential

²Supporting

***Additional**

Unit 1: Equations, Transformations, Congruence & Similarity (≈7.5 weeks)

Analyze and solve linear equations and pairs of simultaneous linear equations.

¹MGSE8.EE.7 Solve linear equations in one variable.

²7a. Give examples of linear equations in one variable with one solution, infinitely many solutions, or no solutions. Show which of these possibilities is the case by successively transforming the given equation into simpler forms, until an equivalent equation of the form $x = a$, $a = a$, or $a = b$ results (where a and b are different numbers).

¹7b. Solve linear equations with rational number coefficients, including equations whose solutions require expanding expressions using the distributive property and collecting like terms.

¹MGSE8.G.5 Use informal arguments to establish facts about the angle sum and exterior angle of triangles, about the angles created when parallel lines are cut by a transversal, and the angle-angle criterion for similarity of triangles. *For example, arrange three copies of the same triangle so that the three angles appear to form a line, and give an argument in terms of transversals why this is so.*

¹MGSE8.G.1 Verify experimentally the congruence properties of rotations, reflections, and translations: lines are taken to lines and line segments to line segments of the same length; angles are taken to angles of the same measure; parallel lines are taken to parallel lines

¹MGSE8.G.2 Understand that a two-dimensional figure is **congruent** to another if the second can be obtained from the first by a sequence of rotations, reflections, and translations; given two congruent figures, describe a sequence that exhibits the congruence between them.

¹MGSE8.G.3 Describe the effect of dilations, translations, rotations and reflections on two-dimensional figures using coordinates. *Given a figure in the coordinate plane, determine the coordinates resulting from a translation, dilation, rotation, or reflection.*

¹MGSE8.G.4 Understand that a two-dimensional figure is **similar** to another if the second can be obtained from the first by a sequence of rotations, reflections, translations, and dilations; given two similar two-dimensional figures, describe a sequence that exhibits the similarity between them.

-1st Semester

August 4 - December 18

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8TH GRADE MATH - UNIT 1 CALENDAR

Monday	Tuesday	Wednesday	Thursday	Friday
Aug 3	Aug 4	Aug 5	Aug 6	Aug 7
	UNIT 1 EE.7 Solving Equations	UNIT 1 EE.7 Solving Equations	UNIT 1 EE.7 Solving Equations	UNIT 1 EE.7 Solving Equations
Aug 10	Aug 11	Aug 12	Aug 13	Aug 14
UNIT 1 EE.7 Solving Equations	UNIT 1 EE.7 Solving Equations	UNIT 1 EE.7 Solving Equations	UNIT 1 EE.7 Solving Equations	UNIT 1 EE.7 Solving Equations
Aug 17	Aug 18	Aug 19	Aug 20	Aug 21
UNIT 1 EE.7 Solving Equations	UNIT 1 EE.7 Solving Equations	UNIT 1 EE.7 Solving Equations	UNIT 1 EE.7 Solving Equations	UNIT 1 EE.7 Solving Equations
Aug 24	Aug 25	Aug 26	Aug 27	Aug 28
UNIT 1 G.5 Angles	UNIT 1 G.5 Angles	UNIT 1 G.5 Angles	UNIT 1 G.5 Angles	UNIT 1 G.5 Angles

-1st Semester

August 4 - December 18

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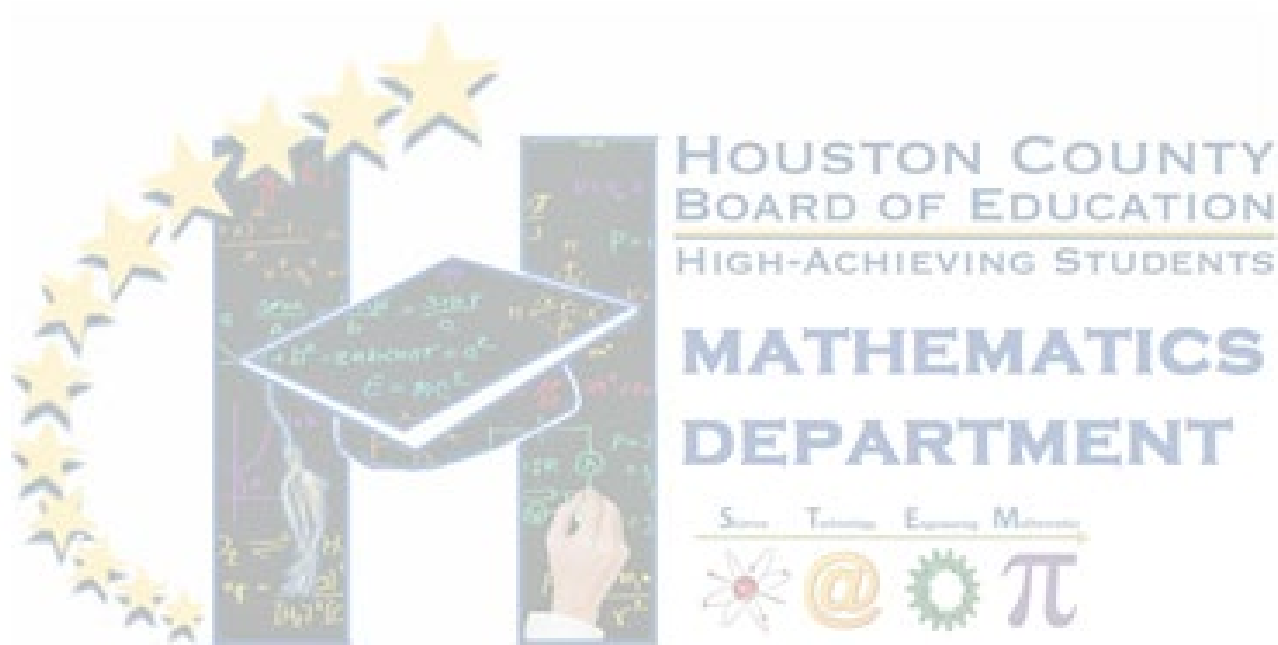
8TH GRADE MATH - UNIT 1 CALENDAR

Monday	Tuesday	Wednesday	Thursday	Friday
Aug 31	Sept 1	Sept 2	Sept 3	Sept 4
UNIT 1 G.5 Angles	UNIT 1 G.5 Angles	UNIT 1 G.1-4 Transformations	UNIT 1 G.1-4 Transformations	UNIT 1 G.1-4 Transformations
Sept 7	Sept 8	Sept 9	Sept 10	Sept 11
LABOR DAY	UNIT 1 G.1-4 Transformations	UNIT 1 G.1-4 Transformations	UNIT 1 G.1-4 Transformations	UNIT 1 G.1-4 Transformations
Sept 14	Sept 15	Sept 16	Sept 17	Sept 18
UNIT 1 G.1-4 Transformations	UNIT 1 G.1-4 Transformations	UNIT 1 G.1-4 Transformations	UNIT 1 G.1-4 Transformations	UNIT 1 G.1-4 Transformations
Sept 21	Sept 22	Sept 23	Sept 24	Sept 25
UNIT 1 G.1-4 Transformations	UNIT 1 G.1-4 Transformations	UNIT 1 G.1-4 Transformations	UNIT 1 REVIEW/TEST	UNIT 1 REVIEW/TEST

-1st Semester

August 4 - December 18

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-1st Semester

August 4 - December 18

September 7 (Labor Day Holiday); October 13-16 (Fall Holiday); November 11 (Veteran's Day); November 23-27 (Thanksgiving Holiday)

**8th Grade Georgia Standards of Excellence
2020-2021 Pacing Guide**

¹Essential

²Supporting

***Additional**

Unit 2: Exponents & Radicals (≈ 4.5 weeks)

Work with radicals and integer exponents.

¹MGSE8.EE.1 Know and apply the properties of integer exponents to generate equivalent numerical expressions. *For*

example, $3^2 \times 3^{-5} = 3^{-3} = \frac{1}{3^3} = \frac{1}{27}$

²MGSE8.EE.3 Use numbers expressed in scientific notation to estimate very large or very small quantities, and to express how many times as much one is than the other. For example, estimate the population of the United States as 3×10^8 and the population of the world as 7×10^9 , and determine that the world population is more than 20 times larger..

²MGSE8.EE.4 Add, subtract, multiply and divide numbers expressed in scientific notation, including problems where both decimal and scientific notation are used. Understand scientific notation and choose units of appropriate size for measurements of very large or very small quantities (e.g. use millimeters per year for seafloor spreading). Interpret scientific notation that has been generated by technology (e.g. calculators).

Know that there are numbers that are not rational, and approximate them by rational numbers.

²MGSE8.NS.1. Know that numbers that are not rational are called irrational. Understand informally that every number has a decimal expansion; for rational numbers show that the decimal expansion repeats eventually, and convert a decimal expansion which repeats eventually into a rational number.

~~**²MGSE8.EE.2** Use square root and cube root symbols to represent solutions to equations. Recognize that $x^2 = p$ (where p is a positive rational number and $|x| \leq 25$) has 2 solutions and $x^3 = p$ (where p is a negative or positive rational number and $|x| \leq 10$) has one solution. Evaluate square roots of perfect squares ≤ 625 and cube roots of perfect cubes ≥ -1000 and ≤ 1000 ***Evaluating***~~

²MGSE8.NS.2 Use rational approximation of irrational numbers to compare the size of irrational numbers, locate them approximately on a number line, and estimate the value of expressions (e.g., estimate π^2 to the nearest tenth). For example, by truncating the decimal expansion of $\sqrt{2}$ (square root of 2), show that $\sqrt{2}$ is between 1 and 2, then between 1.4 and 1.5, and explain how to continue on to get better approximations.

-1st Semester

August 4 - December 18

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8TH GRADE MATH - UNIT 2 CALENDAR

Sept	28	Sept	29	Sept	30	Oct	1	Oct	2
UNIT 2 EE.1, EE.3, EE.4 Exponents & Scientific Notation		UNIT 2 EE.1, EE.3, EE.4 Exponents & Scientific Notation		UNIT 2 EE.1, EE.3, EE.4 Exponents & Scientific Notation		UNIT 2 EE.1, EE.3, EE.4 Exponents & Scientific Notation		UNIT 2 EE.1, EE.3, EE.4 Exponents & Scientific Notation	
Oct	5	Oct	6	Oct	7	Oct	8	Oct	9
UNIT 2 EE.1, EE.3, EE.4 Exponents & Scientific Notation		UNIT 2 EE.1, EE.3, EE.4 Exponents & Scientific Notation		UNIT 2 EE.1, EE.3, EE.4 Exponents & Scientific Notation		UNIT 2 EE.1, EE.3, EE.4 Exponents & Scientific Notation		Inservice	
Oct	12	Oct	13	Oct	14	Oct	15	Oct	16
FALL BREAK		FALL BREAK		FALL BREAK		FALL BREAK		FALL BREAK	
Oct	19	Oct	20	Oct	21	Oct	22	Oct	23
UNIT 2 EE.1, EE.3, EE.4 Exponents & Scientific Notation		UNIT 2 EE.1, EE.3, EE.4 Exponents & Scientific Notation		UNIT 2 EE.1, EE.3, EE.4 Exponents & Scientific Notation		UNIT 2 EE.1, EE.3, EE.4 Exponents & Scientific Notation		UNIT 2 EE.1, EE.3, EE.4 Exponents & Scientific Notation	
Oct	26	Oct	27	Oct	28	Oct	29	Oct	30
UNIT 2 NS.1, NS.2, EE.2 Irrational Numbers		UNIT 2 NS.1, NS.2, EE.2 Irrational Numbers		UNIT 2 NS.1, NS.2, EE.2 Irrational Numbers		UNIT 2 NS.1, NS.2, EE.2 Irrational Numbers		UNIT 2 NS.1, NS.2, EE.2 Irrational Numbers	
Nov	2	Nov	3	Nov	4	Nov	5	Nov	6
UNIT 2 NS.1, NS.2, EE.2 Irrational Numbers		UNIT 2 NS.1, NS.2, EE.2 Irrational Numbers		UNIT 2 NS.1, NS.2, EE.2 Irrational Numbers		UNIT 2 <i>REVIEW/TEST</i>		UNIT 2 <i>REVIEW/TEST</i>	

-1st Semester

August 4 - December 18

September 7 (Labor Day Holiday); October 13-16 (Fall Holiday); November 11 (Veteran's Day); November 23-27 (Thanksgiving Holiday)

**8th Grade Georgia Standards of Excellence
2020-2021 Pacing Guide**

Essential

Supporting

***Additional**

Unit 3: Geometric Applications of Exponents (≈ 5 weeks)

Work with radicals and integer exponents.

MGSE8.EE.2 Use square root and cube root symbols to represent solutions to equations. Recognize that $x^2 = p$ (where p is a positive rational number and $|x| \leq 25$) has 2 solutions and $x^3 = p$ (where p is a negative or positive rational number and $|x| \leq 10$) has one solution. Evaluate square roots of perfect squares ≤ 625 and cube roots of perfect cubes ≥ -1000 and ≤ 1000 .

Understand and apply the Pythagorean Theorem.

MGSE8.G.6 Explain a proof of the Pythagorean Theorem and its converse.

MGSE8.G.7 Apply the Pythagorean Theorem to determine unknown side lengths in right triangles in real-world and mathematical problems in two and three dimensions.

MGSE8.G.8 Apply the Pythagorean Theorem to find the distance between two points in a coordinate system.

Solve real-world and mathematical problems involving volume of cylinders, cones, and spheres.

MGSE8.G.9 Apply the formulas for the volume of cones, cylinders, and spheres and use them to solve real world and mathematical problems.

-1st Semester

August 4 - December 18

September 7 (Labor Day Holiday); October 13-16 (Fall Holiday); November 11 (Veteran's Day); November 23-27 (Thanksgiving Holiday)

8TH GRADE MATH - UNIT 3 CALENDAR

Monday	Tuesday	Wednesday	Thursday	Friday
Nov 9	Nov 10	Nov 11	Nov 12	Nov 13
UNIT 3 EE.2, G.6-8 Pythagorean Theorem	UNIT 3 EE.2, G.6-8 Pythagorean Theorem	Veteran's Day	UNIT 3 EE.2, G.6-8 Pythagorean Theorem	UNIT 3 EE.2, G.6-8 Pythagorean Theorem
Nov 16	Nov 17	Nov 18	Nov 19	Nov 20
UNIT 3 EE.2, G.6-8 Pythagorean Theorem	UNIT 3 EE.2, G.6-8 Pythagorean Theorem	UNIT 3 EE.2, G.6-8 Pythagorean Theorem	UNIT 3 EE.2, G.6-8 Pythagorean Theorem	UNIT 3 EE.2, G.6-8 Pythagorean Theorem
Nov 23	Nov 24	Nov 25	Nov 26	Nov 27
THANKSGIVING	THANKSGIVING	THANKSGIVING	THANKSGIVING	THANKSGIVING
Nov 20	Dec 1	Dec 2	Dec 3	Dec 4
UNIT 3 EE.2, G.6-8 Pythagorean Theorem	UNIT 3 EE.2, G.6-8 Pythagorean Theorem	UNIT 3 EE.2, G.6-8 Pythagorean Theorem	UNIT 3 EE.2, G.6-8 Pythagorean Theorem	UNIT 3 G.9 Volume
Dec 7	Dec 8	Dec 9	Dec 10	Dec 11
UNIT 3 G.9 Volume	UNIT 3 G.9 Volume	UNIT 3 G.9 Volume	UNIT 3 G.9 Volume	UNIT 3 G.9 Volume
Dec 14	Dec 15	Dec 16	Dec 17	Dec 18
UNIT 3 REVIEW/TEST	UNIT 3 Mid-Terms	UNIT 3 Mid-Terms	UNIT 3 Mid-Terms	UNIT 3 Mid-Terms
				Half Day Students

2nd Semester

January 5 - May 26

January 18 (MLK Holiday); February 15 (President's Day Holiday); February 16 (Student Holiday) March 29-April 2 (Spring Break)

8th Grade Georgia Standards of Excellence 2020-2021 Pacing Guide

[Ⓜ]Essential

[Ⓢ]Supporting

*Additional

Unit 4: Functions (≈ 2 week)

Define, evaluate, and compare functions.

[Ⓜ]MGSE8.F.1 Understand that a function is a rule that assigns to each input exactly one output. The graph of a function is the set of ordered pairs consisting of an input and the corresponding output.

[Ⓢ]MGSE8.F.2 Compare/analyze properties of (one) ~~two~~ function(s) ~~each~~ represented in a different ways (algebraically, graphically, numerically in tables, or by verbal descriptions).

[Ⓜ]MGSE8.F.3 Interpret the equation ~~$y = mx + b$~~ as defining a linear function, ~~whose graph is a straight line~~; give examples of functions that are not linear. * **Compare linear versus non-linear functions.** For example, the function $A = s^2$ giving the area of a square as a function of its side length is not linear because its graph contains the points (1, 1), (2, 4) and (3, 9), which are not on a straight line.

2nd Semester

January 5 - May 26

January 18 (MLK Holiday); February 15 (President's Day Holiday); February 16 (Student Holiday) March 29-April 2 (Spring Break)

8TH GRADE MATH - UNIT 4 CALENDAR

Jan 4	Jan 5	Jan 6	Jan 7	Jan 8
INSERVICE	UNIT 4 F.1-3 Functions	UNIT 4 F.1-3 Functions	UNIT 4 F.1-3 Functions	UNIT 4 F.1-3 Functions
X				
Jan 11	Jan 12	Jan 13	Jan 14	Jan 15
UNIT 4 F.1-3 Functions	UNIT 4 F.1-3 Functions	UNIT 4 F.1-3 Functions	UNIT 4 F.1-3 Functions	UNIT 4 F.1-3 Functions

2nd Semester

January 5 - May 26

January 18 (MLK Holiday); February 15 (President's Day Holiday); February 16 (Student Holiday) March 29-April 2 (Spring Break)

8th Grade Georgia Standards of Excellence 2020-2021 Pacing Guide

¹Essential

²Supporting

*Additional

Unit 5: Linear Functions (\approx 4 weeks)

Understand the connections between proportional relationships, lines, and linear equations.

¹MGSE8.EE.5 Graph proportional relationships, interpreting the unit rate as the slope of the graph. Compare two different proportional relationships represented in different ways. *For example, compare a distance-time graph to a distance-time equation to determine which of two moving objects has greater speed.*

¹MGSE8.EE.6 Use similar triangles to explain why the slope m is the same between any two distinct points on a non-vertical line in the coordinate plane; derive the equation $y = mx$ for a line through the origin and the equation $y = mx + b$ for a line intercepting the vertical axis at b .

¹MGSE8.F.2 Compare properties of two functions each represented in a different ways (algebraically, graphically, numerically in tables, or by verbal descriptions). For example, given a linear function represented by a table of values and a linear function represented by an algebraic expression, determine which function has the greater rate of change.

¹MGSE8.F.3 Interpret the equation $y = mx + b$ as defining a linear function, whose graph is a straight line; ~~give examples of functions that are not linear. For example, the function $A = s^2$ giving the area of a square as a function of its side length is not linear because its graph contains the points (1, 1), (2, 4) and (3, 9), which are not on a straight line.~~

2nd Semester

January 5 - May 26

January 18 (MLK Holiday); February 15 (President's Day Holiday); February 16 (Student Holiday) March 29-April 2 (Spring Break)

8TH GRADE MATH - UNIT 5 CALENDAR

Jan 18	Jan 19	Jan 20	Jan 21	Jan 22
MLK HOLIDAY	UNIT 5 EE.5, EE.6, F.2, F.3 LINEAR FUNCTIONS	UNIT 5 EE.5, EE.6, F.2, F.3 LINEAR FUNCTIONS	UNIT 5 EE.5, EE.6, F.2, F.3 LINEAR FUNCTIONS	UNIT 5 EE.5, EE.6, F.2, F.3 LINEAR FUNCTIONS
Jan 25	Jan 26	Jan 27	Jan 28	Jan 29
UNIT 5 EE.5, EE.6, F.2, F.3 LINEAR FUNCTIONS	UNIT 5 EE.5, EE.6, F.2, F.3 LINEAR FUNCTIONS	UNIT 5 EE.5, EE.6, F.2, F.3 LINEAR FUNCTIONS	UNIT 5 EE.5, EE.6, F.2, F.3 LINEAR FUNCTIONS	UNIT 5 EE.5, EE.6, F.2, F.3 LINEAR FUNCTIONS
Feb 1	Feb 2	Feb 3	Feb 4	Feb 5
UNIT 5 EE.5, EE.6, F.2, F.3 LINEAR FUNCTIONS	UNIT 5 EE.5, EE.6, F.2, F.3 LINEAR FUNCTIONS	UNIT 5 EE.5, EE.6, F.2, F.3 LINEAR FUNCTIONS	UNIT 5 EE.5, EE.6, F.2, F.3 LINEAR FUNCTIONS	UNIT 5 EE.5, EE.6, F.2, F.3 LINEAR FUNCTIONS
Feb 8	Feb 9	Feb 10	Feb 11	Feb 12
UNIT 5 EE.5, EE.6, F.2, F.3 LINEAR FUNCTIONS	UNIT 5 EE.5, EE.6, F.2, F.3 LINEAR FUNCTIONS	UNIT 5 EE.5, EE.6, F.2, F.3 LINEAR FUNCTIONS	UNIT 5 EE.5, EE.6, F.2, F.3 LINEAR FUNCTIONS	UNIT 5 REVIEW/TEST

-1st Semester

August 4 - December 18

September 7 (Labor Day Holiday); October 13-16 (Fall Holiday); November 11 (Veteran's Day); November 23-27 (Thanksgiving Holiday)

**8th Grade Georgia Standards of Excellence
2020-2021 Pacing Guide**

^HEssential

^SSupporting

***Additional**

Unit 6: Linear Models & Tables (≈ 3.5 weeks)

Use functions to model relationships between quantities.

^HMGSE8.F.4 Construct a function to model a linear relationship between two quantities. Determine the rate of change and initial value of the function from a description of a relationship or from two (x, y) values, including reading these from a table or from a graph. Interpret the rate of change and initial value of a linear function in terms of the situation it models, and in terms of its graph or a table of values.

^HMGSE8.F.5 Describe qualitatively the functional relationship between two quantities by analyzing a graph (e.g., where the function is increasing or decreasing, linear or nonlinear). Sketch a graph that exhibits the qualitative features of a function that has been described verbally.

Investigate patterns of association in bivariate data.

^SMGSE8.SP.1 Construct and interpret scatter plots for bivariate measurement data to investigate patterns of association between two quantities. Describe patterns such as clustering, outliers, positive or negative association, linear association, and nonlinear association.

^SMGSE8.SP.2 Know that straight lines are widely used to model relationships between two quantitative variables. For scatter plots that suggest a linear association, informally fit a straight line, and informally assess the model fit by judging the closeness of the data points to the line.

^SMGSE8.SP.3 Use the equation of a linear model to solve problems in the context of bivariate measurement data, interpreting the slope and intercept. *For example, in a linear model for a biology experiment, interpret a slope of 1.5 cm/hr as meaning that an additional hour of sunlight each day is associated with an additional 1.5 cm in mature plant height.*

***MGSE8.SP.4** Understand that patterns of association can also be seen in bivariate categorical data by displaying frequencies and relative frequencies in a two-way table.

- Construct and interpret a two-way table summarizing data on two categorical variables collected from the same subjects.
- Use relative frequencies calculated for rows or columns to describe possible association between the two variables. For example, collect data from students in your class on whether or not they have a curfew on school nights and whether or not they have assigned chores at home. Is there evidence that those who have a curfew also tend to have chores?

2nd Semester

January 5 - May 26

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8TH GRADE MATH - UNIT 6 CALENDAR

Monday	Tuesday	Wednesday	Thursday	Friday
Feb 15	Feb 16	Feb 17	Feb 18	Feb 19
PRESIDENTS DAY	INSERVICE	UNIT 6	UNIT 6	UNIT 6
		F.4.F.5 Functions	F.4.F.5 Functions	F.4.F.5 Functions
Feb 22	Feb 23	Feb 24	Feb 25	Feb 26
UNIT 6	UNIT 6	UNIT 6	UNIT 6	UNIT 6
F.4.F.5 Functions	F.4.F.5 Functions	F.4.F.5 Functions	F.4.F.5 Functions	F.4.F.5 Functions
Mar 1	Feb 2	Feb 3	Feb 4	Feb 5
UNIT 6	UNIT 6	UNIT 6	UNIT 6	UNIT 6
SP.1, SP.2, SP.3 Scatter Plots	SP.1, SP.2, SP.3 Scatter Plots	SP.1, SP.2, SP.3 Scatter Plots	SP.1, SP.2, SP.3 Scatter Plots	SP.1, SP.2, SP.3 Scatter Plots
Mar 8	Mar 9	Mar 10	Mar 11	Mar 12
UNIT 6	UNIT 6	UNIT 6	UNIT 6	UNIT 6
SP.4 Two-way Tables	SP.4 Two-way Tables	SP.4 Two-way Tables	REVIEW/TEST	REVIEW/TEST

2nd Semester

January 5 - May 26

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8th Grade Georgia Standards of Excellence 2020-2021 Pacing Guide

¹Essential

²Supporting

*Additional

Unit 7: Solving Systems of Linear Equations (\approx 2 weeks)

Analyze and solve linear equations and pairs of simultaneous linear equations.

¹MGSE8.EE.8 Analyze and solve pairs of simultaneous linear equations (systems of linear equations)

- 8a. Understand that solutions to a system of two linear equations in two variables correspond to points of intersection of their graphs, because points of intersection satisfy both equations simultaneously.
- 8b. Solve systems of two linear equations in two variables algebraically, and estimate solutions by graphing the equations. Solve simple cases by inspection. *For example, $3x + 2y = 5$ and $3x + 2y = 6$ have no solution because $3x + 2y$ cannot simultaneously be 5 and 6.* Solve systems of equations graphically and algebraically, using technology as appropriate
- 8c. Solve real-world and mathematical problems leading to two linear equations in two variables. For example, given coordinates for two pairs of points, determine whether the line through the first pair of points intersects the line through the second pair.

2nd Semester

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8TH GRADE MATH - UNIT 7 CALENDAR

Mar	15	Mar	16	Mar	17	Mar	18	Mar	19
UNIT 7		UNIT 7		UNIT 7		UNIT 7		UNIT 7	
EE.8		EE.8		EE.8		EE.8		EE.8	
Systems of Equations		Systems of Equations		Systems of Equations		Systems of Equations		Systems of Equations	
Mar	22	Mar	23	Mar	24	Mar	25	Mar	26
UNIT 7		UNIT 7		UNIT 7		UNIT 7		UNIT 7	
EE.8		EE.8		EE.8		REVIEW/TEST		REVIEW/TEST	
Systems of Equations		Systems of Equations		Systems of Equations					
Mar	29	Mar	30	Mar	31	Apr	1	Apr	2
SPRING BREAK		SPRING BREAK		SPRING BREAK		SPRING BREAK		SPRING BREAK	
Apr	5	Apr	6	Apr	7	Apr	8	Apr	9
REVIEW		REVIEW		REVIEW		REVIEW		REVIEW	

2nd Semester

January 5 - May 26

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¹Essential

²Supporting

*Additional

Unit 8: Algebra Revisited (\approx 6 weeks)

¹MGSE8.EE.5 Graph proportional relationships, interpreting the unit rate as the slope of the graph. Compare two different proportional relationships represented in different ways. *For example, compare a distance-time graph to a distance-time equation to determine which of two moving objects has greater speed.*

¹MGSE8.EE.6 Use similar triangles to explain why the slope m is the same between any two distinct points on a non-vertical line in the coordinate plane; derive the equation $y = mx$ for a line through the origin and the equation $y = mx + b$ for a line intercepting the vertical axis at b .

¹MGSE8.EE.7 Solve linear equations in one variable.

7a. Give examples of linear equations in one variable with one solution, infinitely many solutions, or no solutions. Show which of these possibilities is the case by successively transforming the given equation into simpler forms, until an equivalent equation of the form $x = a$, $a = a$, or $a = b$ results (where a and b are different numbers).

7b. Solve linear equations with rational number coefficients, including equations whose solutions require expanding expressions using the distributive property and collecting like terms.

¹MGSE8.EE.8 Analyze and solve pairs of simultaneous linear equations (systems of linear equations)

8a. Understand that solutions to a system of two linear equations in two variables correspond to points of intersection of their graphs, because points of intersection satisfy both equations simultaneously.

8b. Solve systems of two linear equations in two variables algebraically, and estimate solutions by graphing the equations. Solve simple cases by inspection. *For example, $3x + 2y = 5$ and $3x + 2y = 6$ have no solution because $3x + 2y$ cannot simultaneously be 5 and 6.* Solve systems of equations graphically and algebraically, using technology as appropriate

8c. Solve real-world and mathematical problems leading to two linear equations in two variables. For example, given coordinates for two pairs of points, determine whether the line through the first pair of points intersects the line through the second pair

2nd Semester

January 5 - May 26

January 18 (MLK Holiday); February 15 (President's Day Holiday); February 16 (Student Holiday) March 29-April 2 (Spring Break)

8TH GRADE MATH - GMAS & UNIT 8 CALENDAR

*Note: If testing windows stay the same as prior years, this would place GMAS during the 12th-19th. However there is pending legislation to require testing only during the last 25 days of school, so these testing windows could change. These dates are left blank below for you to fill in later when you know the actual GMAS dates for Spring 2021.

Apr	12	Apr	13	Apr	14	Apr	15	Apr	16
Apr	19	Apr	20	Apr	21	Apr	22	Apr	23
Apr	26	Apr	27	Apr	28	Apr	29	Apr	30
May	3	May	4	May	5	May	6	May	7

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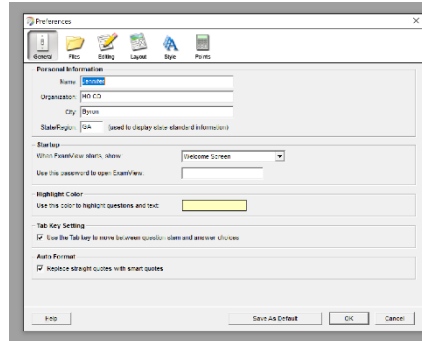
8TH GRADE MATH - UNIT 8 CALENDAR

May 10	May 11	May 12	May 13	May 14
UNIT 8 ALGEBRA REVISITED	UNIT 8 ALGEBRA REVISITED	UNIT 8 ALGEBRA REVISITED	UNIT 8 ALGEBRA REVISITED	UNIT 8 ALGEBRA REVISITED
May 17	May 18	May 19	May 20	May 21
UNIT 8 ALGEBRA REVISITED	UNIT 8 ALGEBRA REVISITED	UNIT 8 ALGEBRA REVISITED	UNIT 8 ALGEBRA REVISITED	UNIT 8 ALGEBRA REVISITED
May 24	May 25	May 26	May 21	May 22
REVIEW	FINALS	FINALS		
		Last Day of School		

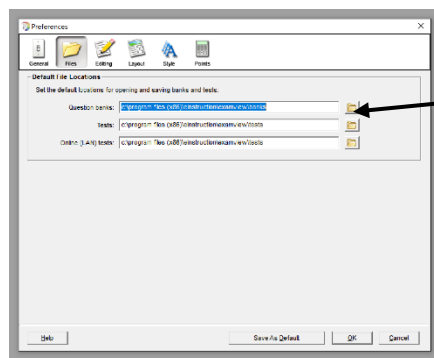
How to Make ExamView Banks Easily Accessible

Open ExamView Test Generator

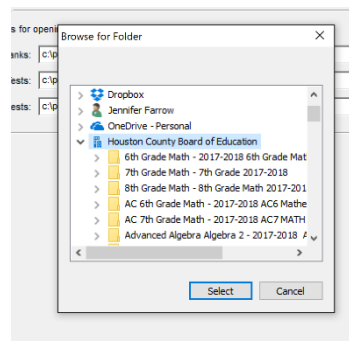
1. After closing the welcome menu, choose the EDIT tab. Select “Preferences”



2. In this window, choose “Files” and then the file folder icons next to Question banks.



3. Navigate to the location of the course materials on your computer -Houston County Board of Education Synced Files. Highlight and select. Click OK.



4. Now when you go to create a test and select questions, ExamView will default to this location. ExamView Banks are located in the ExamView folder and in each Unit's Assessment folder.

