AC 6TH 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.

<u>To say that some standards have greater emphasis is **not** to say that anything in the standards can safely be neglected in instruction!</u> 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

Math teachers from every 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 "Essential "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.

^µEssential

^ΣSupporting

*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?	 Unit Plans "I Can" Statements with Examples Unit Assessments Daily PODs Lessons and Tasks Assessment Banks (instructions for ExamView banks after the calendars) Fluency Unit for RTI Milestones Resources including Mock Assessments HRW Teacher/Student Instructions And much more
Online Textbook	https://my.hrw.com/ Generic login: username: houstoncountyteacher password: Houston1! Each teacher also has a personal account Username: full email address If you don't know your password, use reset password link
Student Weeblys	http://hcbemath.weebly.com/

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.



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



3. 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.

_	Microsoft OneDrive		×	
⊢ N	Sync your files to this PC			
Pr	Choose what you want to download to your "PreCalculus - 2017-2018 PreCalculus" folder. You can get to these items even when you're offline.			
	Sync all files and folders in PreCalculus - 2017-2018 PreCalculus			
	Or sync only these folders:			• ~
7-20	Files not in a folder (1.3 MB) Files (c) (6400E Course Overview Documents (734.4 KB)	^		
Sha	 W . U01 Trigonometry Introduction (49.1 NB) W . U02 Trigonometric Functions (10.8 MB) 			
ours	> U03 Triponometry of Triangles (8.7 MB)			
arep	> ∠ 105 Matrices (13.9 MB) > ∠ 106 Cerics (15.2 MB)			
son	> > ↓ U07 Vectors (29.2 MB) > U09 Probability (8.7 MB)	1		
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4. 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.

	board of Education > oth Grade Math - 2017	2018 oth Grade Math	
	Name	Date modified	Туре
🖈 Quick access	ExamView Banks	6/1/2018 10:31 AM	File folder
🐉 Dropbox		6/1/2018 10:29 AM	File folder
- Houston County Board of Educati	🌏 Teacher Resources	6/1/2018 10:32 AM	File folder
fibuston County Board of Education	🛃 Unit 1 Number System Fluency	6/1/2018 10:32 AM	File folder
of oth Grade Math - 2017-2018 oth	Unit 2 Expressions	6/1/2018 10:29 AM	File folder
7th Grade Math - 7th Grade 2017	🛃 Unit 3 Equations and Inequalities	6/1/2018 10:29 AM	File folder
› 🛃 8th Grade Math - 8th Grade Matł	🌏 Unit 4A Ratio, Rates, and Proportion	6/1/2018 10:32 AM	File folder
› 🛃 AC 6th Grade Math - AC6 Mathe	🛃 Unit 4B Quantitative Relationships	6/1/2018 10:32 AM	File folder
› 📕 AC 7th Grade Math - 2017-2018 /	🛃 Unit 5 Geometry	6/1/2018 10:29 AM	File folder
Algebra 1 - Algebra 1	🌏 Unit 6 Rational Explorations	6/1/2018 10:32 AM	File folder
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> Of Foundations of Algebra - 2017-2	🔊 6th Grade PACING CALENDAR	6/12/2017 6:00 PM	Internet Shortcut
> 🛃 Geometry - 2017-2018 Geometry	🛃 6th_PacingGuideFINAL_2018_2019	6/6/2018 1:08 PM	Microsoft Word D.
🙈 OneDrive - Houston County Boarc	MS Math SHAREPOINT HOMEPAGE	6/12/2017 6:25 PM	Internet Shortcut

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

August 4 - December 18

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

AC6th Grade Georgia Standards of Excellence 2020-2021 Pacing Guide *Additional

<u>Unit 1</u>: Number System Fluency (≈6.5 weeks)

Compute fluently with multi-digit numbers and find common factors and multiples.

^zMGSE6.NS.4 Find the common multiples of two whole numbers less than or equal to 12 and the common factors of two whole numbers less than or equal to 100.

- a. Find the greatest common factor of 2 whole numbers and use the distributive property to express a sum of two whole numbers 1-100 with a common factor as a multiple of a sum of two whole numbers with no common factors. (GCF) Example: 36 + 8 = 4(9 + 2)
- b. Apply the least common multiple of two whole numbers less than or equal to 12 to solve real-world problems.

^zMGSE6.NS.2 Fluently divide multi-digit numbers using the standard algorithm.

^zMGSE6.NS.3 Fluently add, subtract, multiply, and divide multi-digit decimals using the standard algorithm for each operation.

Apply and extend previous understandings of multiplication and division to divide fractions by fractions.

"MGSE7.NS.2.d: Convert a rational number to a decimal using long division; know that the decimal form of a rational number terminates in 0's or eventually repeats.

"MGSE6.NS.1 Interpret and compute quotients of fractions, and solve word problems involving division of fractions by fractions, including reasoning strategies such as using visual fraction models and equations to represent the problem. *For example:*

- Create a story context for (2/3); (3/4) and use a visual fraction model to show the quotient;
- Use the relationship between multiplication and division to explain that (2/3)÷(3/4)= 8/9 becaus3 3/4 of 8/9 is2/3. (In general, (a/b)÷(c/d) =ad/bc.)
- How much chocolate will each person get if 3 people share 1/2 lb of chocolate equally?
- How many 3/4-cup servings are in 2/3 of a cup of yogurt?
- How wide is a rectangular strip of land with length 3/4 mi and area 1/2 square mi?

PMGSE7.NS.3: Solve real-world and mathematical problems involving the four operations with (positive) rational numbers.

		1 st Semester					
Contembor 7 ()	Au	igust 4 - December	18	Meteran's			
September 7 (L	Day); November 23-27 (Thanksgiving Holiday)						
AC6 th Grade (^{PEssential}	Georgia Standards	s of Excellence	2020-2021	Pacing Guide *Additional			
Monday	Tuesday	Wednesday	Thursday	Friday			
Aug 3	Aug 4	Aug 5	Aug 6	Aug 7			
INSERVICE	UNIT 1	UNIT 1	UNIT 1	UNIT 1			
	6NS.4 LCM/GCF	6NS.4 LCM/GCF	6NS.2 Dividing using algorithm	6NS.2 Dividing using algorithm			
	First Day of School						
Aug 10	Aug 11	Aug 12	Aug 13	Aug 14			
UNIT 1	UNIT 1	UNIT 1	UNIT 1	UNIT 1			
6NS.2 Dividing using algorithm	6NS.3 Computing with decimals	6NS.3 Computing with decimals	6NS.3 Computing with decimals	6NS.3 Computing with decimals			
Aug 17	Aug 18	Aug 19	Aug 20	Aug 21			
UNIT 1	UNIT 1	UNIT 1	UNIT 1	UNIT 1			
6NS.3 Computing with	7NS.2d Fractions to	7NS.2d Fractions to	6NS.1 Division of fractions	6NS.1 Division of fractions			
ucciniais	uccimais	ucunais					
Δυσ 24	Aug 2 5	Δυσ 26	Aug 37	Δυσ			
6NS.1 Division of fractions	6NS.1 Division of fractions	6NS.1 Division of fractions	6NS.1, 7NS.3	6NS.1, 7NS.3			
			Computation with rational numbers	Computation with rational numbers			
Aug 31	Sept 1	Sept 2	Sept 3	Sept 4			
UNIT 1	UNIT 1	UNIT 1	UNIT 1	UNIT 1			
6NS.1, 7NS.3	6NS.1, 7NS.3	6NS.1, 7NS.3	6NS.1, 7NS.3	6NS.1, 7NS.3			
numbers	numbers	numbers	numbers	numbers			

1 st 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)							
AC6 th Grade (^{PEssential}	AC6 th Grade Georgia Standards of Excellence ^v Essential ^z Supporting ^z Supportin						
Sept 7	Sept 8	ot 8 Sept 9 Sept 10					
LABOR DAY	UNIT 1	UNIT 1	UNIT 1	UNIT 1			
\setminus	6NS.1, 7NS.3 Computation with rational numbers	6NS.1, 7NS.3 Computation with rational numbers	REVIEW	TEST			

August 4 - December 18 September 7 (Labor Day Holiday); October 13-16 (Fall Holiday); November 11 (Veteran's Day); November 23-27 (Thanksgiving Holiday)

AC6th Grade Georgia Standards of Excellence ^vEssential ^xSupporting 2020-2021 Pacing Guide *Additional



1 st Semester							
August 4 - December 18							
September / (Labor Day Holiday); October 13-16 (Fall Holiday); November 11 (Veteran's							
AC6 th Grade Georgia Standards of Excellence 2020-2021 Pacing Guide							
^μ Essential ^Σ Supporting *Additional							
<u>Unit 2a</u> : Rational Explorations (≈3 weeks)							
Apply and extend previous understandings of numbers to the system of rational numbers.							
"MGSE6.NS.5 Understand that positive and negative numbers are used together to describe quantities having opposite directions or values (e.g., temperature above/below zero, elevation above/below sea level, debits/credits, positive/negative electric charge); use positive and negative numbers to represent quantities in real-world contexts, explaining the meaning of 0 in each situation.							
Students will understand the meaning of positive and negative rational numbers							
⁵ MGSE6.NS.6 Understand a rational number as a point on the number line. Extend number line diagrams and coordinate axes familiar from previous grades to represent points on the line and in the plane with negative number coordinates.							
^Σ 6a. Recognize opposite signs of numbers as indicating locations on opposite sides of 0 on the number line; recognize that the opposite of the opposite of a number is the number itself, e.g., (-3) = 3, and that 0 is its own opposite.							
"6b. Understand signs of numbers in ordered pairs as indicating locations in quadrants of the coordinate plane; recognize that when two ordered pairs differ only by signs, the locations of the points are related by reflections across one or both axes. Given a point in the coordinate plane, determine the coordinates resulting from a reflection.							
² 6c. Find and position integers and other rational numbers on a horizontal or vertical number line diagram; find and position pairs of integers and other rational numbers on a coordinate plane.							
⁴ MGSE6.NS.7 Understand ordering and absolute value of rational numbers.							
² 7a. Interpret statements of inequality as statements about the relative position of two numbers on a number line diagram. For example, interpret as a statement that -3 is located to the right of -7 on a number line oriented from left to right.							
 P7b. Write, interprets, and explains statements of order for rational numbers in real-world contexts. For example, write -3°C > -7°C to express the fact that -3°C is warmer than -7°C. 							
 ²7c. Understand the absolute value of a rational number as its distance from 0 on the number line; interpret absolute value as magnitude for a positive or negative quantity in a real-world situation. For example, for an account balance of -30 dollars, write -30 = 30 to describe the size of the debt in dollars. 							
² 7d. Distinguish comparisons of absolute value from statements about order. For example, recognize that an account balance less than -30 dollars represents a debt greater than 30 dollars.							
^x MGSE6.NS.8 Solve real-world and mathematical problems by graphing points in all four quadrants of the coordinate plane. Include use of coordinates and absolute value to find distances between points with the same first coordinate or the same second coordinate.							
² MGSE6.G.3 Draw polygons in the coordinate plane given coordinates for the vertices; use coordinates to find the length of a side joining points with the same first coordinate or the same second coordinate. Apply these techniques in the context of solving real-world and mathematical problems.							

		1 st Semester		
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September 7	Labor Day Holiday); O	ctober 13-16 (Fall Hol	iday); November 11	(Veteran's Day);
		er 23-27 (Thanksgiving	g Holiday)	
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PESSENT	lat	2 Supporting	A	daitional
Sept 1	4 Sept 15	Sept 16	Sept 17	Sept 18
UNIT 2A	UNIT 2A	UNIT 2A	UNIT 2A	UNIT 2A
6NS.5-7	6NS.5-7	6NS.5-7	6NS.5-7	6NS.5-7
Understanding +/-	Understanding +/-	Understanding +/-	Understanding +/-	Understanding +/-
Rational Numbers and	Rational Numbers and	Rational Numbers and	Rational Numbers and	Rational Numbers and
Absolute Value	Absolute Value	Absolute Value	Absolute Value	Absolute Value
Sept 2	1 Sept 22	Sept 23	Sept 24	Sept 25
UNIT 2A	UNIT 2A	UNIT 2A	UNIT 2A	UNIT 2A
6NS.5-7	6NS.8, 6G.3	6NS.8, 6G.3	6NS.8, 6G.3	6NS.8, 6G.3
Understanding +/-	Horizontal & Vertical	Horizontal & Vertical		
			Horizontal & Vertical	Horizontal & Vertical
Rational Numbers and	distance on the	distance on the	Horizontal & Vertical distance on the	Horizontal & Vertical distance on the
Absolute Value	distance on the Coordinate Plane	distance on the Coordinate Plane	Horizontal & Vertical distance on the Coordinate Plane	Horizontal & Vertical distance on the Coordinate Plane
Absolute Value	distance on the Coordinate Plane	distance on the Coordinate Plane	Horizontal & Vertical distance on the Coordinate Plane	Horizontal & Vertical distance on the Coordinate Plane
Absolute Value	distance on the Coordinate Plane	distance on the Coordinate Plane	Horizontal & Vertical distance on the Coordinate Plane	Horizontal & Vertical distance on the Coordinate Plane
Absolute Value	distance on the Coordinate Plane	distance on the Coordinate Plane	Horizontal & Vertical distance on the Coordinate Plane	Horizontal & Vertical distance on the Coordinate Plane
Absolute Value	distance on the Coordinate Plane	distance on the Coordinate Plane	Horizontal & Vertical distance on the Coordinate Plane	Horizontal & Vertical distance on the Coordinate Plane
Absolute Value	distance on the Coordinate Plane	distance on the Coordinate Plane	Horizontal & Vertical distance on the Coordinate Plane	Horizontal & Vertical distance on the Coordinate Plane
Absolute Value	distance on the Coordinate Plane	distance on the Coordinate Plane	Horizontal & Vertical distance on the Coordinate Plane	Horizontal & Vertical distance on the Coordinate Plane
Sept 2	distance on the Coordinate Plane B Oct 29 UNIT 2A	distance on the Coordinate Plane	Oct 1	Horizontal & Vertical distance on the Coordinate Plane
Sept 2 UNIT 2A	distance on the Coordinate Plane B Oct 29 UNIT 2A 6NS 8 6G 3	distance on the Coordinate Plane	Horizontal & Vertical distance on the Coordinate Plane	Horizontal & Vertical distance on the Coordinate Plane

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2

August 4 - December 18

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AC6th Grade Georgia Standards of Excellence 2020-2021 Pacing Guide *Additional

<u>Unit 2b</u>: Rational Operations(≈4 weeks)

PMGSE 7.NS.1 Apply and extend previous understandings of addition and subtraction to add and subtract rational numbers; represent addition and subtraction on a horizontal or vertical number line diagram.

- **1a.** Show that a number and its opposite have a sum of 0 (are additive inverses). Describe situations in which opposite quantities combine to make 0. For example, your bank account balance is -\$25.00. You deposit \$25.00 into your account. The net balance is \$0.00.
- **1b.** Understand p + q as the number located a distance from p, in the positive or negative direction depending on whether q is positive or negative. Interpret sums of rational numbers by describing real world contexts.
- **1c.** Understand subtraction of rational numbers as adding the additive inverse, p q = p + (-q). Show that the distance between two rational numbers on the number line is the absolute value of their difference, and apply this principle in real-world contexts.
- 1d. Apply properties of operations as strategies to add and subtract rational numbers.

PMGSE7.NS.2 Apply and extend previous understandings of multiplication and division and of fractions to multiply and divide rational numbers.

- 2a. Understand that multiplication is extended from fractions to rational numbers by requiring that operations continue to satisfy the properties of operations, particularly the distributive property, leading to products such as (-1)(-1) = 1 and the rules for multiplying signed numbers. Interpret products of rational numbers by describing real-world contexts.
- **2b.** Understand that integers can be divided, provided that the divisor is not zero, and every quotient of integers (with non-zero divisor) is a rational number. If p and q are integers then -(p/q) = (-p)/q = p/(-q). Interpret quotients of rational numbers by describing real-world contexts.
- **2c**. Apply properties of operations as strategies to multiply and divide rational numbers.
- **2d.** Convert a rational number to a decimal using long division; know that the decimal form of a rational number terminates in 0's or eventually repeats.

PMGSE7.NS.3 Solve real-world and mathematical problems involving the four operations with rational numbers.

	1 st Semester August 4 - December 18								
Septe	September 7 (Labor Day Holiday); October 13-16 (Fall Holiday); November 11 (Veteran's Day); November 23-27 (Thanksgiving Holiday)								
	AC6 TH GRADE MATH - UNIT 2B CALENDAR								
	^p Essentia	l		² Supp	orting		*A	dditional	
Moi	nday	Tues	day	Wedne	esday	Thur	sday	Frid	lay
Oct	5	Oct	6	Oct	7	Oct	8	Oct	9
Uni	t 2B	Unit	2B	Unit	: 2B	Uni	t 2B	INSEF	RVICE
7N Addir Subtrad Rational	S.1 ng and :ting +/- Numbers	7NS Adding Subtract Rational N	5.1 g and ting +/- Numbers	7NS.1 Adding and Subtracting +/- Rational Numbers		7N Addin Subtrac Rational	S.1 ng and ting +/- Numbers		
Oct	12	Oct	13	Oct	14	Oct	15	Oct	16
Fall E	Break	Fall B	reak	Fall B	reak	Fall E	Break	Fall Break	
Oct	19	Oct	20	Oct	21	Oct	22	Oct	23
Uni	t 2B	Unit	2В	Unit	: 2B	Uni	t 2B	Uni	t 2B
7N Addir Subtrac Rational	S.1 Ig and :ting +/- Numbers	7NS Adding Subtract Rational N	5.1 g and ting +/- Numbers	7NS.2 Multiplying and Dividing +/- Rational Numbers		7N Multiply Dividing +, Num	S.2 ying and /- Rational ubers	7N Multiply Dividing +, Num	S.2 /ing and /- Rational bers
Oct	26	Oct	27	Oct	28	Oct	29	Ovt	30
Uni	t 2B	Unit	2B	Unit	: 2B	Unit 2B		Unit 2B	
7NS.3 Real World Problems with +/- Rational Numbers		7NS Real World with +/- I Numl	5.3 Problems Rational bers	7NS.3 Real World Problems with +/- Rational Numbers		7NS.3 Real World Problems with +/- Rational Numbers		7NS.3 Real World Problems with +/- Rational Numbers	
Nov	2	Nov	3	Nov	4	Nov	5	Nov	6
Uni	t 2B	Unit	2B	Unit	: 2B	Uni	t 2B	Uni	t 2 B
7N Real World with +/- Num	S.3 J Problems Rational Ibers	7NS Real World with +/- I Numl	5.3 Problems Rational bers	7NS Real World with +/- Num	5.3 Problems Rational bers	Rev	iew	TE	ST

	1 st 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)							
AC6 th Grade Georgia Stand ^µ Essential	dards of Excellence ^Σ Supporting	2020-2021acing Guide * <mark>Additional</mark>					
<u>Unit 3</u> : Expressions (≈3 wee	ks)						
Apply and extend previous under	standings of arithmetic to	algebraic expressions.					
MGSE6EE.1 Write and evaluate nu	imerical expressions involvi	ng whole-number exponents.					
MGSE6EE.2 Write, read, and evalu	uate expressions in which le	etters stand for numbers.					
2a. Write expressions that red numbers. For example, ex phrases to algebraic expre algebraic expressions	cord operations with numbe press the calculation "Subtr ssions Use variables, such a	rs and with letters standing for ract y from 5" as Translate verbal s x or y, for unknown quantities in					
2b. Identify parts of an expre quotient, and coefficient); For example, describe the entity and a sum of two te	ssion using mathematical te view one or more parts of expression as a product of erms.	erms (sum, term, product, factor, an expression as a single entity. two factors; view as both a single					
2c. Evaluate expressions at sp from formulas in real-worl involving whole-number ex parentheses to specify a p	becific values for their varia d problems. Perform arithm oponents, in the convention articular order (Order of Op	bles. Include expressions that arise netic operations, including those al order when there are no perations).					
MGSE6EE.3 Apply the properties of algebraic expressions, using comm	of operations to generate equipation of operations to generate equipation of the second distribution o	quivalent expressions. Simplify stributive properties as appropriate.					
MGSE7.EE.1 Apply properties of o linear expressions with rational coefficients of the second secon	perations as strategies to a efficients.	dd, subtract, factor, and expand					
MGSE6EE.4 Identify when two exp the same number regardless of	pressions are equivalent (i.e of which value is substituted	e., when the two expressions name I into them).					
MGSE7EE.2 Understand that rewr clarify the problem and how the qu means that adding a 5% tax to a to	iting an expression in differ uantities in it are related. F tal is the same as multiplyir	ent forms in a problem context can for example a + 0.05a = 1.05a ng the total by 1.05.					

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)

	AC 6 th GRADE MATH - UNIT 3 CALENDAR							
^P Essentia	<u>al</u>	[∑] Supporting	*A	dditional				
Monday	Tuesday	Wednesday	Thursday	Friday				
Nov 9	Nov 10	Nov 11	Nov 12	Nov 13				
UNIT 3	UNIT 3	Veteran's Day	UNIT 3	UNIT 3				
6EE.1	6EE.1		6EE.2	6EE.2				
Exponents	Exponents		Algebraic Expressions	Algebraic Expressions				
Nov 16	Nov 17	Nov 18	Nov 19	Nov 20				
UNIT 3	UNIT 3	UNIT 3	UNIT 3	UNIT 3				
6EE.2	6EE.2	6EE.3-4, 7EE.4, 7EE.2	6EE.3-4, 7EE.4, 7EE.2	6EE.3-4, 7EE.4, 7EE.2				
Algebraic Expressions	Algebraic Expressions	Equivalent Expressions	Equivalent Expressions	Equivalent Expressions				
Nov 23	Nov 24	Nov 25	Nov 26	Nov 27				
Thanksgiving	Thanksgiving	Thanksgiving	Thanksgiving	Thanksgiving				
Nov 30	Dec 1	Dec 2	Dec 3	Dec 4				
UNIT 3	UNIT 3	UNIT 3	UNIT 3	UNIT 3				
6EE.3-4, 7EE.4, 7EE.2 Equivalent Expressions	6EE.3-4, 7EE.4, 7EE.2 Equivalent Expressions	6EE.3-4, 7EE.4, 7EE.2 Equivalent Expressions	REVIEW	TEST				

	1 st Semester	
	August 4 - December 18	
September 7 (Labor Day Holic	lay); October 13-16 (Fall Holida	ay); November 11 (Veteran's Day);
No	ovember 23-27 (Thanksgiving H	oliday)
AC6 th Grade Georgia Sta	ndards of Excellence	2020-2021 Pacing Guide
^µ Essential	ΣSupporting	*Additional

Unit 4: One-Step Equations and Inequalities (\approx 2 weeks)

Reason about and solve one-variable equations and inequalities.

PMGSE6.EE.5 Understand solving an equation or inequality as a process of answering a question: which values from a specified set, if any, make the equation or inequality true? Use substitution to determine whether a given number in a specified set makes an equation or inequality true.

PMGSE6.EE.6 Use variables to represent numbers and write expressions when solving a realworld or mathematical problem; understand that a variable can represent an unknown number, or, depending on the purpose at hand, any number in a specified set. Given a problem, define a variable, write an equation.

PMGSE6.EE.7 Solve real-world and mathematical problems by writing and solving equations of x + p = q and px = q for cases in which p, q and x are all non-negative rational the form numbers.

"MGSE6.EE.8 Write an inequality of the form x > c or x < c to represent a constraint or condition in a real-world or mathematical problem. Recognize that inequalities of the form x>c or x<c have infinitely many solutions; represent solutions of such inequalities on number line diagram

August 4 - December 18 September 7 (Labor Day Holiday); October 13-16 (Fall Holiday); November 11 (Veteran's Day); November 23-27 (Thanksgiving Holiday) AC6TH GRADE MATH - UNIT 4 CALENDAR

^µEssential

ΣSupporting

*Additional

Monday	Tuesday	Wednesday	Thursday	Friday
Dec 7	Dec 8	Dec 9	Dec 10	Dec 11
UNIT 4 6EE.5 Using Substitution to Determine the Solution to an Equation or Inequality	UNIT 4 6EE.6 Writing Equations	UNIT 4 6EE.7 One-step Equations	UNIT 4 6EE.7 One-step Equations	UNIT 4 6EE.7 One-step Equations
Dec 14	Dec 15	Dec 16	Dec 17	Dec 18
UNIT 4 6EE.8 Writing Inequalities	UNIT 4 6EE.8 Writing Inequalities	UNIT 4 Review	UNIT 4 Review	Last Day before Christmas Break Half Day for Students

January 5 - May 26

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

AC6th Grade Georgia Standards of Excellence2020-2021 Pacing GuideμEssentialΣSupporting*Additional

<u>Unit 5A:</u> Rate, Ratio, & Proportional Reasoning (MODELS to Equations) (\approx 3 weeks)

Understand ratio concepts and use ratio reasoning to solve problems.

"MGSE6.RP.1 Understand the concept of a ratio and use ratio language to describe a ratio relationship between two quantities.

^µMGSE7.RP.1 Compute unit rates associated with ratios of fractions, including ratios of lengths, areas and other quantities measured in like or different units.

PMGSE6.RP.2 Understand the concept of a unit rate associated with a ratio with (b not equal to zero), and use rate language in the context of a ratio relationship.

"MGSE6.RP.3 Use ratio and rate reasoning to solve real-world and mathematical problems utilizing strategies such as tables of equivalent ratios, tape diagrams (bar models), double number line diagrams, and/or equations.

3a. Make tables of equivalent ratios relating quantities with whole-number measurements, find missing values in the tables, and plot the pairs of values on the coordinate plane. Use tables to compare ratios

3b. Solve unit rate problems including those involving unit pricing and constant speed. (MODELS)

3c. Find a percent of a quantity as a rate per 100 (e.g. 30% of a quantity means 30/100 times the quantity); given a percent, solve problems involving finding the whole given a part and the part given the whole. (MODELS to Equations)

3d. Given a conversion factor, use ratio reasoning to convert measurement units within one system of measurement and between two systems of measurements (customary and metric); manipulate and transform units appropriately when multiplying or dividing quantities. For example, given 1 in. = 2.54 cm, how many centimeters are in 6 inches?

January 5 - May 26 January 18 (MLK Holiday); February 15 (President's Day Holiday); February 16 (Student Holiday) March 29-April 2 (Spring Break)

AC6th Grade Georgia Standards of Excellence ^ΣSupporting ^µEssential

2020-2021 Pacing Guide *Additional

Monday	Tuesday	Wednesday	Thursday	Friday
Jan 4	Jan 5	Jan 6	Jan 7	Jan 8
Teacher Workday	UNIT 5A	UNIT 5A	UNIT 5A	UNIT 5A
	6RP.1, 6RP.3a	6RP.1, 6RP.3a	6RP.2, 6RP3b, 7RP.1	6RP.2, 6RP3b, 7RP.1
	Ratios and Tables	Ratios and Tables	Unit Rates	Unit Rates
Jan 11	Jan 12	Jan 13	Jan 14	Jan 15
UNIT 5A	UNIT 5A	UNIT 5A	UNIT 5A	UNIT 5A
6RP.2, 6RP3b, 7RP.1	6RP.2, 6RP3b, 7RP.1	6RP.3d	6RP.3d	6RP.3c
Unit Rates	Unit Rates	Converting	Converting	Percent Ratios
Jan 18	Jan 19	Jan 20	Jan 21	Jan 22
Veteran's Day	UNIT 5A	UNIT 5A	UNIT 5A	UNIT 5A
	6RP.3c	6RP.3d	Review	Test
	Percent Ratios	Percent Ratios		

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<u>Unit 5b</u>: Applying Proportional Relationships (≈4 weeks)

Understand ratio concepts and use ratio reasoning to solve problems.

^µMGSE6.RP.3 Use ratio and rate reasoning to solve real-world and mathematical problems, e.g., by reasoning about tables of equivalent ratios, tape diagrams, double number line diagrams, or equations.

3a. Make tables of equivalent ratios relating quantities with whole-number measurements, find missing values in the tables, and plot the pairs of values on the coordinate plane. Use tables to compare ratios. Analyze and describe patterns arising from mathematical rules, tables, and graphs

^µMGSE6.EE.9 Use variables to represent two quantities in a real-world problem that change in relationship to one another.

- a. Write an equation to express one quantity, the dependent variable, in terms of the other quantity, the independent variable.
- **b.** Analyze the relationship between the dependent and independent variables using graphs and tables, and relate these to the equation. For example, in a problem involving motion at constant speed, list and graph ordered pairs of distances and times, and write the equation d=65t to represent the relationship between distance and time

Analyze proportional relationships and use them to solve real-world and mathematical problems.

^PMGSE7.RP.2 Recognize and represent proportional relationships between quantities.

- **2a.** Decide whether two quantities are in a proportional relationship, e.g., by testing for equivalent ratios in a table or graphing on a coordinate plane and observing whether the graph is a straight line through the origin.
- **2b.** Identify the constant of proportionality (unit rate) in tables, graphs, equations, diagrams, and verbal descriptions of proportional relationships.
- **2c.** Represent proportional relationships by equations. For example, if total cost is proportional to the number of items purchased at a constant price (p), the relationship between the total cost (t) and the number of items (n) can be expressed as t = pn.
- **2d.** Explain what a point (x, y) on the graph of a proportional relationship means in terms of the situation, with special attention to the points (0, 0) and (1, r) where r is the unit rate.

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Monday	Tuesday	Wednesday	Thursday	Friday	
Jan 25	Jan 26	Jan 27	Jan 28	Jan 29	
UNIT 5B	UNIT 5B	UNIT 5B	UNIT 5B	UNIT 5B	
6RP.3a	6RP.3a	6RP.3a	6RP.3a	6RP.3a	
Analyze and describe patterns from rules, tables, and graphs	Analyze and describe patterns from rules, tables, and graphs	A 6KP.3a 6KP.3a 6KP.3a lescribe n rules, graphs Analyze and describe patterns from rules, tables, and graphs Analyze and describe patterns from rules, tables, and graphs Analyze and describe patterns from rules, tables, and graphs 2 Feb 3 Feb 4			
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Feb 1	Feb 2	Feb 3	Feb 4	Feb 5	
UNIT 5B	UNIT 5B	UNIT 5B	UNIT 5B	UNIT 5B	
6RP.3a	6RP.3a	6EE.9	6EE.9	6EE.9	
Analyze and describe	Analyze and describe	Writing and Analyzing	Writing and Analyzing	Writing and Analyzing	
patterns from rules, tables, and graphs	patterns from rules, tables, and graphs	Equations for relationships between	Equations for relationships between	Equations for relationships between	
and graphs	tables, and Braphs	two variables	two variables	two variables	
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Feb 8	Feb 9	Feb 10	Feb 11	Feb 12	
UNIT 5B	UNIT 5B	UNIT 5B	UNIT 5B	UNIT 5B	
7RP.2	7RP.2	7RP.2	7RP.2	7RP.2	
Proportional	Proportional	Proportional	Proportional	Proportional	
Relationships	Relationships	Relationships	Relationships	Relationships	
Feb 15	Feb 16	Feb 17	Feb 18	Feb 19	
President's Day	Inservice	UNIT 5B	Review	Test	
		7RP.2			
		Proportional			
		Relationships			

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Unit 6: Area and Volume (≈3 weeks)

Solve real-world and mathematical problems involving area, surface area, and volume.

- **MGSE6.G.1** Find area of right triangles, other triangles, special quadrilaterals, and polygons by composing into rectangles or decomposing into triangles and other shapes; apply these techniques in the context of solving real-world and mathematical problems. Find the area of a polygon (regular and irregular) by dividing it into squares, rectangles, and/or triangles and find the sum of the areas of those shapes.
- ^zMGSE6.G.4 Represent three-dimensional figures <u>using nets</u> made up of rectangles and triangles, and use the nets to find the surface area of these figures. Apply these techniques in the context of solving real-world and mathematical problems.
- *MGSE6.G.2 Find the volume of a right rectangular prism with fractional edge lengths by packing it with unit cubes of the appropriate unit fraction edge lengths, and show that the volume is the same as would be found by multiplying the edge lengths of the prism. Apply the formulas V = *lwh* and V = *Bh* to find volumes of right rectangular prisms with fractional edge lengths in the context of solving real-world and mathematical problems.

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AC6 TH GRADE MATH - UNIT 6 CALENDAR

Monday	Tuesday	Wednesday	Thursday	Friday
Feb 22	Feb 23	Feb 24	Feb 25	Feb 26
UNIT 6	UNIT 6	UNIT 6	UNIT 6	UNIT 6
6.G1	6.G1	6.G1	6.G1	6.G1
Area of Polygons	Area of Polygons	Area of Polygons	Area of Polygons	Area of Polygons
Mar 1	Mar 2	Mar 3	Mar 4	Mar 5
UNIT 6	UNIT 6	UNIT 6	UNIT 6	UNIT 6
6.G4	6.G4	6.G4	6.G2	6.G2
Surface Area using	Surface Area using	Surface Area using	Volume	Volume
Nets	Nets	Nets		
Mar 8	Mar 9	Mar 10	Mar 11	Mar 12
UNIT 6	UNIT 6	UNIT 6	UNIT 6	UNIT 6
6.G2	6.G2	6.G2	Review	TEST
Volume	Volume	Volume		

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<u>Unit 7</u>: Statistics (≈3 weeks)

Develop understanding of statistical variability.

*MGSE6.SP.1 Recognize a statistical question as one that anticipates variability in the data related to the question and accounts for it in the answers.

*MGSESP.2 Understand that a set of data collected to answer a statistical question has a distribution which can be described by its center, spread, and overall shape.

*MGSE6.SP.3 Recognize that a measure of center for a numerical data set summarizes all of its values with a single number, while a measure of variation describes how its values vary with a single number.

Summarize and describe distributions.

*MGSE6.SP.4 Display numerical data in plots on a number line, including dot plots, histograms, and box plots.

*MGSE6.SP.5 Summarize numerical data sets in relation to their context, such as by:

- a. Reporting the number of observations. Analyze categorical data using frequencies of categories or proportions of categories
- b. Describing the nature of the attribute under investigation, including how it was measure and its units of measurement.
- c. Giving quantitative measures of center (median and/or mean) and variability (interquartile range), as well as describing any overall pattern and any striking deviations from the overall pattern with reference to the context in which the data was gathered. Analyze numerical data using the appropriate measure of central tendency (mean and/or median). Analyze data with respect to the appropriate measures of variation (range, interquartile range).
- d. Relating the choice of measures of center and variability to the shape of the data distribution and the context in which the data was gathered.

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AC6 TH GRADE MATH - UNIT 7 CALENDAR

Monday	Tuesday	Wednesday	Thursday	Friday
Mar 15	Mar 16	Mar 17	Mar 18	Mar 19
UNIT 7	UNIT 7	UNIT 7	UNIT 7	UNIT 7
6SP.1-3	6SP.1-3	6SP.1-3	6SP.4	6SP.4
Understanding	Understanding	Understanding	Displaying Statistical	Displaying Statistical
Statistical Variability	Statistical Variability	Statistical Variability	data	data
Mar 22	Mar 23	Mar 24	Mar 25	Mar 26
UNIT 7	UNIT 7	UNIT 7	UNIT 7	UNIT 7
6SP.4	6SP.4	6SP.4	6SP.4	6SP.5
Displaying Statistical	Displaying Statistical	Displaying Statistical	Displaying Statistical	Summarizing
data	data	data	data	Statistical Data
Mar 29	Mar 30	Marr 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
UNIT 7	UNIT 7	UNIT 7	UNIT 7	UNIT 7
6SP.5	6SP.5	6SP.5	REVIEW	TEST
Summarizing Statistical Data	Summarizing Statistical Data	Summarizing Statistical Data		

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Apr		12	Apr	13	Apr		14	Apr		15	Apr		16
	REVIEW		REVIE	W		REVIEW			REVIEW			REVIEW	
Apr		19	Apr	20	Apr		21	Apr		22	Apr		23

*Note: 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 for you to fill in later when you know the actual GMAS dates for Spring 2021.

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AC6 th Grade Georgia Stand	lards of Excellence	2019-2020 Pacing Guide
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Unit 8: Equations and Proporti	onal Relationships (≈4 we	eks)
 MGSE7.EE.4 Use variables to represent the second problems leading to and r are specific rational nualgebraic solution to an arithin each approach. 4b. Solve word problems leading to and r are specific rational number of the problems leading to and r are specific rational number of the problem of the context of the problem of the pr	resent quantities in a real-v equalities to solve problem to equations of the form px imbers. Solve equations of t metic solution, identifying to inequalities of the form p imbers. Graph the solution n. atical problems by writing to and q are rational number	world or mathematical problem, and s by reasoning about the quantities. + q = r and $p(x + q) = r$, where p, q, these forms fluently. Compare an the sequence of the operations used px + q > r or $px + q < r$, where p, q set of the inequality and interpret it and solving equations of the form rs.
 MGSE7.EE.3 Solve multistep real negative rational numbers in any properties of operations as strate appropriate, and assessing the real estimation strategies. For example: If a woman making \$25 an hour an hour, or \$2.50, for a new If you want to place a towel bar wide, you will need to place used as a check on the exact 	-life and mathematical pro form (whole numbers, fract gies to calculate with numb asonableness of answers usi gets a 10% raise, she will m salary of \$27.50. • 9 3/4 inches long in the ce the bar about 9 inches fror computation.	blems posed with positive and tions, and decimals) by applying pers, converting between forms as ng mental computation and take an additional 1/10 of her salary enter of a door that is 27 1/2 inches n each edge; this estimate can be
MGSE7.RP.3 Use proportional relExamples: simple interest, tafees.	ationships to solve multiste ax, markups and markdown	ep ratio and percent problems. s, gratuities and commissions, and
² MGSE7.G.1 Solve problems involu- actual lengths and areas from a so- scale	ving scale drawings of geom cale drawing and reproducin	netric figures, including computing ng a scale drawing at a different

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AC6 TH GRADE MATH - UNIT 8 CALENDAR

Monday	Tuesday	Wednesday	Thursday	Friday
Apr 26	Apr 27	Apr 28	Apr 29	Apr 30
UNIT 8				
7EE.3-4	7EE.3-4	7EE.3-4	7EE.3-4	7EE.3-4
Writing and Solving				
Equations and				
Inequalities	Inequalities	Inequalities	Inequalities	Inequalities
May 3	May 4	May 5	May 6	May 7
UNIT 8				
7RP.3	7RP.3	7RP.3	7RP.3	7RP.3
Using proportional				
Relationships to solve				
Nulti-step Ratio and Percent Problems	Nulti-step katio and Percent Problems	Nulti-step katio and Percent Problems	Multi-step katio and Percent Problems	Nulti-step katio and Percent Problems
Мау 10	May 11	May 12	May 13	May 14
UNIT 8				
7G.1	7G.1	7G.1	7G.1	7G.1
Scale Drawings				
May 17	May 18	May 19	May 20	May 21
UNIT 8				
7G.1	7G.1	7G.1	7G.1	7G.1
Scale Drawings				
May 24	May 25	May 26	May 27	May 28
FINALS	FINALS	Last Day		
		1/2 day for Students		

How to Make ExamView Banks Easily Accessible Open ExamView Test Generator

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

Preferences	×
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2. In this window, choose "Files" and then the file folder icons next to Question banks.

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

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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.

Select Question	s While Viewing		×
	Step 1: Highlight the question banks Up one level 0 00 Grade Math - 2017-2015 600 17 M Grade Math - 7M Grade 2017 10 B0 Grade Math - 2M Grade Math A C 600 Grade Math - 2017-2018 A A C 7M Grade Math - 2017-2018 A	you want to use and click the Select button. Encode Math 2017-2018 2017-2018 2021 Math 2021 Math	
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