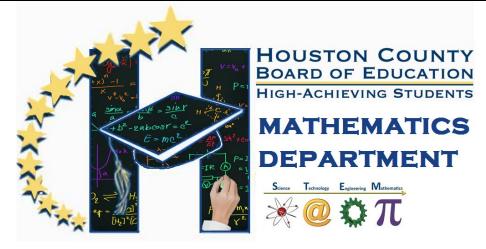
AC 7TH GRADE MATHEMATICS 2020-2021

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 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 "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

Σ 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?	 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/

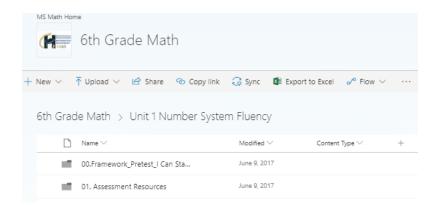
How do I sync the mathematics material to my file library on my desktop?

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.

	ft OneDrive			×				
Sy	nc your files to this	PC						
	ose what you want to download to your							
PreC	Calculus" folder. You can get to these iter	ns even when you're offlin	B.					
🗹 Sj	ync all files and folders in PreCalculus - 2	017-2018 PreCalculus						
Or s	ync only these folders:				$_{e}$ \sim			
E.	Files not in a folder (1.3 MB)							
	(C) GADOE Course Overview Documents (734.4	KB)						
	U01 Trigonometry Introduction (49.1 NB)							
	U02 Trigonometric Functions (10.8 MB)							
> 5	U03 Trigonometry of Triangles (8.7 MB)							
> 5	U04 Trigonometric Identities (10.6 MB)							
> 5	U05 Matrices (13.9 MB)							
	U06 Corrics (15.2 MB)							
	U07 Vectors (29.2 MB)							
	UCS Probability (8.7 MB)							
					<u></u>			
	ion on your PC: C:\Users\/falco\Houston County B\Pr	Columb - 2017 2010 DesColumb -	Start sy		-			

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.

	^	-2018 6th Grade Math	
	Name	Date modified	Туре
📌 Quick access	ExamView Banks	6/1/2018 10:31 AM	File folder
🐉 Dropbox	🛃 Fluency Unit	6/1/2018 10:29 AM	File folder
Houston County Board of Educati	🛃 Teacher Resources	6/1/2018 10:32 AM	File folder
6th Grade Math - 2017-2018 6th	Unit 1 Number System Fluency	6/1/2018 10:32 AM	File folder
	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	ᡖ 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
> 🛃 Algebra 2 - Algebra II	Unit 7 Statistics	6/1/2018 10:29 AM	File folder
> A Foundations of Algebra - 2017-2	👩 Unit 8 After Testing	6/1/2018 10:29 AM	File folder
-	🔊 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 I
🐔 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

1 st Semester					
	August 4 - December 1				
September 7 (Labor Day Holiday); October 13-16 (Fall Holiday); November 11 (Veteran's Day); November 23-27 (Thanksgiving Holiday					
AC7th Grade Georgia Standa		2020-2021 Pacing Guide			
^P Essential	^Σ Supporting	*Additional			
Unit 1: Equations, Transformations, Congruence & Similarity (~ 7 weeks)					
Analyze and solve linear equations ar	nd pairs of simultaneous lin	near equations.			
 ^µMGSE8.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). ^µ7b. Solve linear equations with rational number coefficients, including equations whose solutions require expanding expressions using the distributive property and collecting like terms. 					
*MGSE7.G.2 Explore various geometric three measures of angles and/or s more than one triangle, or no tria	sides, noticing when the co	ns. Focus on creating triangles from nditions determine a unique triangle,			
MGSE7.G.5 Use facts about supplement problem to write and solve simple		ical, and adjacent angles in a multi-step angle in a figure.			
criterion for similarity of triangle	ed when parallel lines are c s. For example, arrange thi	angle sum and exterior angle of ut by a transversal, and the angle-angle ree copies of the same triangle so that nt in terms of transversals why this is so.			
MGSE8.G.1 Verify experimentally the lines are taken to lines and line se angles of the same measure; para	egments to line segments o	f the same length; angles are taken to			
MGSE8.G.2 Understand that a two-dim obtained from the first by a seque congruent figures, describe a sequence	ence of rotations, reflection	ns, and translations; given two			
MGSE8.G.3 Describe the effect of dila figures using coordinates. <i>Given a resulting from a translation, dila</i>	figure in the coordinate p	lane, determine the coordinates			
	tations, reflections, transla	o another if the second can be obtained ations, and dilations; given two similar he similarity between them.			

	1 st Semester							
Sontombor 7 (Lab	Aug oor Day Holiday); O	ust 4 - December 1		or 11 (Votoran's				
September 7 (Lat		er 23-27 (Thanksgi		er i i (veleran s				
AC7 th Grade G	eorgia Standards			Pacing Guide				
^µ Essential	1	^Σ Supporting	A*	dditional				
Monday	Tuesday	Wednesday	Thursday	Friday				
Aug 3	Aug 4	Aug 5	Aug 6	Aug 7				
Pre-Planning	Unit 1	Unit 1	Unit 1	Unit 1				
	Equations, Congruence, & Similarity	Equations, Congruence, & Similarity	Equations, Congruence, & Similarity	Equations, Congruence, & Similarity				
	8.EE.7a	8.EE.7a	8.EE.7a	8.EE.7a				
Aug 10	Aug 11	Aug 12	Aug 13	Aug 14				
Unit 1								
Equations, Congruence, & Similarity	Equations, Congruence, & Similarity	Equations, Congruence, & Similarity	Equations, Congruence, & Similarity	Equations, Congruence, & Similarity				
8.EE.7b	8.EE.7b	8.EE.7b	8.EE.7b	8.EE.7b				
Aug 17	Aug 18	Aug 19	Aug 20	Aug 21				
Unit 1								
Equations, Congruence, & Similarity	Equations, Congruence, & Similarity	Equations, Congruence, & Similarity	Equations, Congruence, & Similarity	Equations, Congruence, & Similarity				
7.G.2, 7.G.5, 8.G.5								
Aug 24	Aug 25	Aug 26	Aug 27	Aug 28				
Unit 1								
Equations, Congruence, & Similarity	Equations, Congruence, & Similarity	Equations, Congruence, & Similarity	Equations, Congruence, & Similarity	Equations, Congruence, & Similarity				
7.G.2, 7.G.5, 8.G.5								

	1 st Semester							
September 7 (Lab	Aug or Day Holiday); O	ust 4 - December 1 ctober 13-16 (Fall		er 11 (Veteran's				
		er 23-27 (Thanksgi						
AC7 th Grade Georgia Standards of Excellence 2020-2021 Pacing Guide								
^µ Essential	^Σ Supporting *Additional							
Aug 31	Sept 1	Sept 2	Sept 3	Sept 4				
Unit 1	Unit 1	Unit 1	Unit 1	Unit 1				
Equations, Congruence, & Similarity nit 1	Equations, Congruence, & Similarity nit 1	Equations, Congruence, & Similarity	Equations, Congruence, & Similarity	Equations, Congruence, & Similarity				
8.G.1, 8.G.2,8.G.3, 8.G.4	8.G.1, 8.G.2,8.G.3, 8.G.4	8.G.1, 8.G.2,8.G.3, 8.G.4	8.G.1, 8.G.2,8.G.3, 8.G.4	8.G.1, 8.G.2,8.G.3, 8.G.4				
Sept 7	Sept 8	Sept 9	Sept 10	Sept 11				
	Unit 1	Unit 1	Unit 1	Unit 1				
Labor Day	Equations, Congruence, & Similarity	Equations, Congruence, & Similarity	Equations, Congruence, & Similarity	Equations, Congruence, & Similarity				
	8.G.1, 8.G.2,8.G.3, 8.G.4	8.G.1, 8.G.2,8.G.3, 8.G.4	8.G.1, 8.G.2,8.G.3, 8.G.4	8.G.1, 8.G.2,8.G.3, 8.G.4				
Sept 14	Sept 15	Sept 16	Sept 17	Sept 18				
Unit 1	Unit 1	Unit 1	Unit 1	Unit 1 Test				
Equations, Congruence, & Similarity	Equations, Congruence, & Similarity	Equations, Congruence, & Similarity	Equations, Congruence, & Similarity	Equations, Congruence, & Similarity				
8.G.1, 8.G.2,8.G.3, 8.G.4	8.G.1, 8.G.2,8.G.3, 8.G.4	8.G.1, 8.G.2,8.G.3, 8.G.4	8.G.1, 8.G.2,8.G.3, 8.G.4					

August 4 - December 18

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

AC7th Grade Georgia Standards of Excellence ^µEssential [∑]Supporting



August 4 - December 18

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

AC7th Grade Georgia Standards of Excellence2020-2021 Pacing GuideμEssentialΣSupporting*Additional

<u>Unit 2</u>: Exponents (\approx 3 weeks)

Work with radicals and integer exponents.

^µ**MGSE8.EE.1** Know and apply the properties of integer exponents to generate equivalent numerical expressions. *For example*, $3^2 \times 3^{(-5)} = 3^{(-3)} = 1/3^3$) = 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 × 108 and the population of the world as 7 × 109, 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 x2 = p (where p is a positive rational number and lxl < 25) has 2 solutions and x3 = p (where p is a negative or positive rational number and lxl < 10) has one solution. Evaluate square roots of perfect squares < 625 and cube roots of perfect cubes > -1000 and < 1000 *Evaluating*</p>

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 $\int 2$ (square root of 2), show that $\int 2$ is between 1 and 2, then between 1.4 and 1.5, and explain how to continue on to get better approximations.

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

AC7 th Grade G ^µ Essential	eorgia Standards	of Excellence ^Σ Supporting	2020-2021	Pacing Guide dditional	
Monday	Tuesday	Tuesday Wednesday		Friday	
Sept 21	Sept 22	Sept 23	Sept 24	Sept 25	
Unit 2 Exponents	Unit 2 Exponents	Unit 2 Exponents	Unit 2 Exponents	Unit 2 Exponents	
8.EE.1	8.EE.1	8.EE.1	8.EE.1	8.EE. & 8.EE.4	
Sept 28	Sept 29	Sept 30	Oct 1	Oct 2	
Unit 2 Exponents	Unit 2 Exponents	Unit 2 Exponents	Unit 2 Exponents	Unit 2 Exponents	
8.EE. & 8.EE.4	8.EE. & 8.EE.4	8.EE. & 8.EE.4 8.NS.1 & 8.NS.2		8.NS.1 & 8.NS.2	
Oct 5	Oct 6	Oct 7	Oct 8	Oct 9	
Unit 2 Exponents	Unit 2 Exponents	Unit 2 Exponents	Unit 2 TEST	INSERVICE	
8.NS.1 & 8.NS.2	8.NS.1 & 8.NS.2	8.NS.1 & 8.NS.2			
Oct 12	Oct 13	Oct 14	Oct 15	Oct 16	
Fall Break	Fall Break	Fall Break	Fall Break	Fall Break	

August 4 - December 18

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

AC7th Grade Georgia Standards of Excellence2020-2021 Pacing GuideμEssentialΣSupporting*Additional

<u>Unit 3:</u> Geometric Applications of Exponents (\approx 5 weeks)

Work with radicals and integer exponents.

²MGSE8.EE.2 Use square root and cube root symbols to represent solutions to equations. Recognize that x2 = p (where p is a positive rational number and lxl < 25) has 2 solutions and x3 = p (where p is a negative or positive rational number and lxl < 10) has one solution. Evaluate square roots of perfect squares < 625 and cube roots of perfect cubes > -1000 and < 1000.</p>

Understand and apply the Pythagorean Theorem.

^zMGSE8.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.
 - ^zMGSE8.G.8 Apply the Pythagorean Theorem to find the distance between two points in a coordinate system.
- ***MGSE7.G.4** Given the formulas for the area and circumference of a circle, use them to solve problems; give an informal derivation of the relationship between the circumference and area of a circle.
- *MGSE7.G.6 Solve real-world and mathematical problems involving area, volume and surface area of two- and three-dimensional objects composed of triangles, quadrilaterals, polygons, cubes, and right prisms.
- *MGSE7.G.3 Describe the two-dimensional figures (cross sections) that result from slicing threedimensional figures, as in plane sections of right rectangular prisms, right rectangular pyramids, cones, cylinders, 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.

Sonton	1 st Semester August 4 - December 18 September 7 (Labor Day Holiday); October 13-16 (Fall Holiday); November 11 (Veteran's								
Septen	iber 7 (La					iving Holi		er II (vei	eran s
	ⁿ Grade (^P Essentia	Georgia S		of Exce			20-2021	Pacing C dditional	
Mor	nday	Tues	day		iesday	Thur		Frid	
Oct	19	Oct	20	Oct	21	Oct	22	Oct	23
Unit 3 G	eometry	Unit 3 G	eometry	Unit 3 G	eometry	Unit 3 G	eometry	Unit 3 G	eometry
	E.2 e root and cube uations)	8.E (Solving squa cube root e	are root and	8.G.6, 8.0	G.7, 8.G.8	8.G.6, 8.0	6.7, 8.G.8	8.G.6, 8.0	6.7, 8.G.8
Oct	26	Oct	27	Oct	28	Oct	29	Oct	30
Unit 3 G	eometry	Unit 3 G	eometry	Unit 3 G	eometry	Unit 3 G	eometry	Unit 3 G	eometry
8.G.6, 8.0	G.7, 8.G.8	8.G.9 8	k 7.G.4	8.G.9 8	& 7.G.4	8.G.9 8	& 7.G.4	8.G.9 8	k 7.G.4
Nov	2	Nov	3	Nov	4	Nov	5	Nov	6
Unit 3 G	eometry	Unit 3 G	eometry	Unit 3 G	eometry	Unit 3 G	eometry	Unit 3 G	eometry
8.G.9 8	& 7.G.4	8.G.9 8	k 7.G.4	8.G.9 8	& 7.G.4	7.0	6.3	7.0	i.3
Nov	9	Nov	10	Nov	11	Nov	12	Nov	13
Unit 3 G	eometry	Unit 3 G	eometry	Vetera	ins Day	Unit 3 G	eometry	Unit 3 G	eometry
7.G.6 (Volun	ne)	7.G.6 (Volume)			7.G.6(Volume)	7.G.6 (Volume)
					$\displaystyle \diagdown$				
Nov	16	Nov	17	Nov	18	Νον	19	Nov	20
Unit 3 G	eometry	Unit 3 G	eometry	Unit 3 G	eometry	Unit 3	Review	Unit 3	<mark>B Test</mark>
7.G.6 (S.A. &	Composite Area)	7.G.6 (S.A. & 0	Composite Area)	7.G.6 (S.A. &	Composite Area)				
Nov	23	Nov	24	Nov	25	Nov	26	Nov	27
Thanksgiv	ving Break	Thanksgiv	ing Break	Thanksgiv	ving Break	Thanksgiv	ring Break	Thanksgiv	ing Break

1 st Semester August 4 - December 18 September 7 (Labor Day Holiday); October 13-16 (Fall Holiday); November 11 (Veteran's					
معن المعنى AC7 th Grade Georgia St ^µ Essential	<u>; November 23-27 (Thanksgivi</u> andards of Excellence ^Σ Supporting	2020-2021 Pacing Guide *Additional			
<u>Jnit 4a</u> : Inferences (\approx 3 weel	ks)				
Jse random sampling to draw	v inferences about a populatio	n.			
examining a sample of th valid only if the sample is sampling tends to produc	e population; generalizations al s representative of that populat e representative samples and su rameter (numerical summary o	information about a population by bout a population from a sample are tion. Understand that random upport valid inferences. <i>Distinguish</i> <i>f the population) and a sample</i>			
unknown characteristic o same size to gauge the va central tendency and var Observe that sample stat increases. We have more population parameter wi	f interest. Generate multiple sa ariation in estimates or predicti- iation from samples to those fr istics vary less from one sample precision with our inference fr th a larger sample size. Unders amples thus resulting in sample	e to the next as the sample size			
Draw informal comparative in	nferences about two populatio	ons.			
	measuring the difference betw	f two numerical data distributions een the medians by expressing it as			
samples to draw informal statistics (mean, median, data distribution to anot	comparative inferences about , mode, range, quartiles, and ir	ility for numerical data from randor two populations. <i>Compare summary</i> <i>nterquartile range) from one sampl</i> describing center and variability op ormal comparative statements.			

August 4 - December 18

September 7 (Labor Day Holiday); October 13-16 (Fall Holiday); November 11 (Veteran's Day); November 23-27 (Thanksgiving Holiday AC7th Grade Georgia Standards of Excellence 2020-2021 Pacing Guide

^µEssential

^ΣSupporting

Monday	Monday Tuesday		Thursday	Friday
Nov 30	Dec 1	Dec 2	Dec 3	Dec 4
Unit 4a				
7.SP.1, 7.SP.2, 7.SP.3, & 7.SP.4				
Dec 7	Dec 8	Dec 9	Dec 10	Dec 11
Unit 4a	Unit 4a	Unit 4a	Unit 4a	Unit 4a Test
7.SP.1, 7.SP.2, 7.SP.3, & 7.SP.4				
Dec 14	Dec 15	Dec 16	Dec 17	Dec 18
Unit 1-4a Review	Unit 1-4a Review	Mid-Terms	Mid-Terms	Mid-Terms ½ Day

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

AC7 th Grade Georgia Star	ndards of Excellence	2020-2021 Pacing Guide
^µ Essential	² Supporting	*Additional

<u>Unit 4b</u>: Probability (\approx 3 weeks)

Investigate chance processes and develop, use, and evaluate probability models.

²MGSE7.SP.5 Understand that the probability of a chance event is a number between 0 and 1 that expresses the likelihood of the event occurring. Larger numbers indicate greater likelihood. A probability near 0 indicates an unlikely event, a probability around 1/2 indicates an event that is neither unlikely nor likely, and a probability near 1 indicates a likely event.

²MGSE7.SP.6 Approximate the probability of a chance event by collecting data on the chance process that produces it and observing its long-run relative frequency. Predict the approximate relative frequency given the probability. For example, when rolling a number cube 600 times, predict that a 3 or 6 would be rolled roughly 200 times, but probably not exactly 200 times.

*MGSE7.SP.7 Develop a probability model and use it to find probabilities of events. Compare experimental and theoretical probabilities of events. If the probabilities are not close, explain possible sources of the discrepancy.

- *7a. Develop a uniform probability model by assigning equal probability to all outcomes, and use the model to determine probabilities of events. For example, if a student is selected at random from a class, find the probability that Jane will be selected and the probability that a girl will be selected.
- ***7b**. Develop a probability model (which may not be uniform) by observing frequencies in data generated from a chance process. For example, find the approximate probability that a spinning penny will land heads up or that a tossed paper cup will land open-end down. Do the outcomes for the spinning penny appear to be equally likely based on the observed frequencies?
 - ²MGSE7.SP.8 Find probabilities of compound events using organized lists, tables, tree diagrams, and simulation.
 - ^z8a. Understand that, just as with simple events, the probability of a compound event is the fraction of outcomes in the sample space for which the compound event occurs.
 - ²8b. Represent sample spaces for compound events using methods such as organized lists, tables and tree diagrams. For an event described in everyday language (e.g., "rolling double sixes"), identify the outcomes in the sample space which compose the event.
 - ²8c. Explain ways to set up a simulation and use the simulation to generate frequencies for compound events. For example, if 40% of donors have type A blood, create a simulation to predict the probability that it will take at least 4 donors to find one with type A blood?

		2 nd Semester		
		January 5 - May 26		
January 18 (MLK		y 15 (President's D arch 29-April 2 (Spr		ary 16 (Student
AC7 th Grade G	eorgia Standards			Pacing Guide
^µ Essentia		[∑] Supporting		dditional
Monday	Tuesday	Wednesday	Thursday	Friday
Jan 4	Jan 5	Jan 6	Jan 7	Jan 8
INSERVICE	Unit 4b Probability	Unit 4b Probability	Unit 4b Probability	Unit 4b Probability
\setminus	7.SP.5 & 7.SP.6	7.SP.5 & 7.SP.6	7.SP.5 & 7.SP.6	7.SP.5, 7.SP.6, & 7.SP.7
Jan 11	Jan 12	Jan 13	Jan 14	Jan 15
Unit 4b Probability	Unit 4b Probability	Unit 4b Probability	Unit 4b Probability	Unit 4b Probability
7.SP.7	7.SP.7	7.SP.8	7.SP.8	7.SP.8
Jan 18	Jan 19	Jan 20	Jan 21	Jan 22
MLK Holiday	Unit 4b Probability	Unit 4b Probability	Unit 4b Probability	Unit 4b Probability Test
\land /	7.SP.8	7.SP.8	7.SP.8	

	2 nd Semester	
January 18 (MLK Holiday); February		
AC7 th Grade Georgia Standards o	<u>ch 29-April 2 (Spri</u> of Excollonco	2020-2021 Pacing Guide
^P Essential		*Additional
<u>Unit 5</u> : Functions (\approx 2 weeks)		
Define, evaluate, and compare fu	nctions.	
MGSE8.F.1 Understand that a func- one output. The graph of a fun input and the corresponding ou	ction is the set o	
MGSE8.F.2 Compare/analyze prop in a different ways (algebraical verbal descriptions).		
⁴ MGSE8.F.3 Interpret the equation graph is a straight line; give ex Compare linear (direct variat the function $A = s^2$ giving the a is not linear because its graph which are not on a straight line For example, the function $A = s^2$ giving side length is not linear because its	amples of function tion) versus non- trea of a square of contains the point e. ving the area of the states of the	ons that are not linear. * Inear functions. For example as a function of its side length ats (1, 1), (2, 4) and (3, 9), a square as a function of its

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.

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

AC7th Grade Georgia Standards of Excellence ^ΣSupporting ^µEssential

Monday	Tuesday	Wednesday	Thursday	Friday
Jan 25	Jan 26	Jan 27	Jan 28	Feb 29
Unit 5 Functions				
8.F.1, 8.F.2, & 8.F.3				
Feb 1	Feb 2	Feb 3	Feb 4	Feb 5
Feb 1 Unit 5 Functions	Feb 2 Unit 5 Functions	Feb 3 Unit 5 Functions	Feb 4 Unit 5 Functions	Feb 5 Unit 5 Functions Test
Unit 5				

2 nd Semester	
January 5 - May 26	
January 18 (MLK Holiday); February 15 (President's Day	
Holiday) March 29-April 2 (Sprin AC7 th Grade Georgia Standards of Excellence	
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Unit 6: Linear Functions (\approx 5 weeks)	Additionat
$\frac{0}{10}$ Ellear runctions (~ 5 weeks)	
Understand the connections between proportional relation	ships, lines, and linear equations.
*MGSE8.EE.5 Graph proportional relationships, interpreting t graph. Compare two different proportional relationships example, compare a distance-time graph to a distance-t of two moving objects has greater speed.	represented in different ways. For
*MGSE8.EE.6 Use similar triangles to explain why the slope m distinct points on a non-vertical line in the coordinate pl a line through the origin and the equation $y = mx + b$ for at b.	lane; derive the equation $y = mx$ for
"MGSE8.F.2 Compare properties of <u>two</u> functions each represented in tables, or by we given a linear function represented by a table of values an algebraic expression, determine which function has the second s	verbal descriptions). For example, and a linear function represented by
#MGSE8.F.3 Interpret the equation $y = mx + b$ as defining a listraight line; give examples of functions that are not line s^2 -giving the area of a square as a function of its side lencontains the points (1, 1), (2, 4) and (3, 9), which area	ear. For example, the function A = ngth is not linear because its graph

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

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Monday	Tuesday	Wednesday	Thursday	Friday
Feb 8	Feb 9	Feb 10	Feb 11	Feb 12
Unit 6 Linear Functions	Unit 6 Linear Functions	Unit 6 Linear Functions	Unit 6 Linear Functions	Unit 6 Linear Functions
8.EE.5	8.EE.5	8.EE.5	8.EE.5	8.EE.5
Feb 15	Feb 16	Feb 17	Feb 18	Feb 19
PRESIDENTS DAY	INSERVICE	Unit 6 Linear Functions	Unit 6 Linear Functions	Unit 6 Linear Functions
		8.EE.6 & 8.F.3	8.EE.6 & 8.F.3	8.EE.6 & 8.F.3
\times				
Feb 22	Feb 23	Feb 24	Feb 25	FEb 26
Unit 6 Unit 6 Linear Functions	Unit 6 Linear Functions	Unit 6 Linear Functions	Unit 6 Linear Functions	Unit 6 Linear Functions
8.EE.6 & 8.F.3	8.EE.6 & 8.F.3	8.EE.6 & 8.F.3	8.EE.6 & 8.F.3	8.EE.6 & 8.F.3
Mar 1	Mar 2	Mar 3	Mar 4	Mar
Unit 6 Linear Functions	Unit 6 Linear Functions	Unit 6 Linear Functions	Unit 6 Linear Functions	Unit 6 Linear Functions
8.EE.6 & 8.F.3	8.EE.6 & 8.F.3	8.EE.6 & 8.F.3	8.EE.6 & 8.F.3	8.EE.6 & 8.F.3
Mar 8	Mar 9	Mar 10	Mar 11	Mar 12
Unit 6 Linear Functions	Unit 6 Linear Functions	Unit 6 Linear Functions	Unit 6 Linear Functions	Unit 6 Linear Functions
8.EE.6 & 8.F.3	8.EE.6 & 8.F.3	8.EE.6 & 8.F.3	8.EE.6 & 8.F.3	Test
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January 5 - May 26

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

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Unit 7: Linear Models & Tables (\approx 4 weeks)) 7th EOG During This Unit Use functions to model relationships between quantities. "MGSE8.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, 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. "MGSE8.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. ²MGSE8.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. ^{Σ}MGSE8.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. ²MGSE8.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. a. Construct and interpret a two-way table summarizing data on two categorical variables collected from the same subjects. b. 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?

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Mar	15	Mar	16	Mar	17	Mar	18	Mar	19
Uni	_	Unit	_	Unit	7	Unit		Ur	it 7
Linear N		Linear M		Linear M		Linear N			Models
8.SP.1 &	8.SP.4	8.SP.1 &	8.SP.4	8.SP.1 &	8.SP.4	8.SP.1 &	8.SP.4	8.SP.1	& 8.SP.4
Mar	22	Mar	23	Mar	24	Mar	25	Mar	26
Uni		Unit		Unit		Unit			it 7
Linear N		Linear M	odels	Linear M		Linear N	lodels		Models
8.SP.2 &	8.SP.3	8.SP.2 &	8.SP.3	8.SP.2 &	8.SP.3	8.SP.2 &	8.SP.3	8.SP.2	& 8.SP.3
Mar	29	Mor	30	Ma	21	Apr	1	Apr	2
		Mar			31	Apr		Apr	
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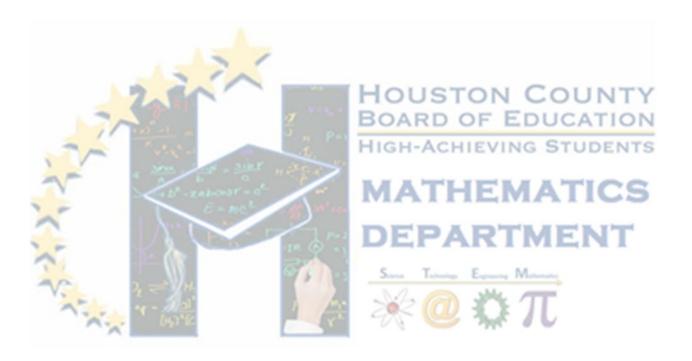
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January 5 - May 26 January 15 (President's Day Holiday); February 16 (Student Holiday) March 29-April 2 (Spring Break) AC7 th Grade Georgia Standards of Excellence 2020-2021 Pacing Guide *Additional *Supporting *Additional 12 Apr 13 Apr 14 Apr 15 Apr 16 12 Apr 13 Apr 14 Apr 15 Apr 16 19 Apr 20 Apr 21 Apr 22 Apr 23 Unit 7 Linear Models 8.F.4 8.F.4 8.F.4 8.F.4 8.F.4 26 Apr 27 Apr 28 Apr 29 Apr 30 Unit 7 Linear Models 8.F.4 8.F.4 8.F.4 8.F.4 8.F.4 8.F.4 26 Apr 27 Apr 28 Apr 29 Apr 30<						
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Unit 7	Uni	t 7 l	Jnit 7 U	nit 7		
Linear Models	Linear N	Models Linea	r Models Linea	Models		
8.F.4	8.F	.4	8.F.4 8	.F.4		
Apr	27 Apr	28 Apr	29 Apr	3		
Apr 2	27 Apr	28 Apr	29 Apr	3		
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Unit 7	Unit	:7 L	Init 7 U	nit 7		
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Unit 7 Linear Models	Unit Linear M	: 7 L Iodels Linea	Init 7 U r Models Linear N	nit 7		
Unit 7 Linear Models	Unit Linear M	: 7 L Iodels Linea	Init 7 U r Models Linear N	nit 7		
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*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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January 18 (MLK Holiday); February 15 (President's Day Holiday); February 16 (Student Holiday) March 29-April 2 (Spring Break)

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<u>Unit 8</u>: Solving Systems of Linear Equations (\approx 3 weeks)

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

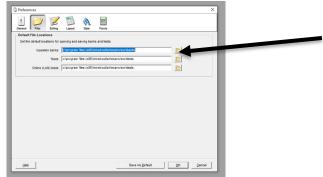
- **PMGSE8.EE.8** Analyze and solve pairs of simultaneous linear equations (systems of linear equations)
- Ba. Understand that solutions to a system of two linear equations in two variables correspond to points of intersection of their graphs, because points of intersection satisfy both equations simultaneously.
- **#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
- **Bc.** 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.

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Monday	Tuesday	Wednesday	Thursday	Friday
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Unit 8				Unit 8
Systems of Equations	Systems of Equations	Systems of Equations	Systems of Equations	Systems of Equations
8.EE.8	8.EE.8	8.EE.8	8.EE.8	8.EE.8
May 10	May 11	May 12	May 13	May 14
Unit 8	Unit 8	Unit 8	Unit 8	Unit 8
Systems of Equations	Systems of Equations	Systems of Equations	Systems of Equations	Systems of Equations
8.EE.8	8.EE.8	8.EE.8	8.EE.8	8.EE.8
May 17	May 18	Мау 19	May 20	May 21
Unit 8	Unit 8 Test	Unit 8 Test	Unit 8 Test	Unit 8 Test
Systems of Equations	Systems of Equations	Systems of Equations	Systems of Equations	Systems of Equations
May 24	May 25	May 26	May 27	May 28
Review	Final Exam	Final Exam		
		Last day of		
		School		
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How to Make ExamView Banks Easily Accessible Open ExamView Test Generator 1. After closing the welcome menu, choose the EDIT tab. Select "Preferences"

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- 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.

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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.

