HOUSTON COUNTY SCHOOLS MATHEMATICS DEPARTMENT

College Readiness 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 Essential, 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

^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 Essential 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 Lessons and Tasks Assessment Banks (instructions for ExamView banks after the calendars) Milestones Resources including Mock Assessments HRW Teacher/Student Instructions And much more
Student Weeblys	http://hcbemath.weebly.com/ (T-CRM does not have its own Weebly yet, but the other grade levels' Weebly sites cover the material found in T-CRM.)

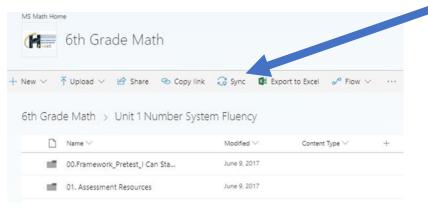
How do I sync the mathematics material to my file library on my desktop?

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.

rosoft OneDrive -		×		
Sync your files to this PC				
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				
sync only these folders:			e ~	
Files not in a folder (1.3 HB)	^			
Click (C) GADOE Course Overview Documents (734.4 KB)				
> C 1, U01 Trigonometry Introduction (49.1 MB)				
> C Uli2 Trigonometric Functions (10.0 MB)				
> 🔀 📙 UI3 Trigonometry of Triangles (8.7 MB)				-
> 🔀 📜 UPI Trigonometric Identities (18.6 MB)				
> 🔀 🖡 UIS Matrices (13.9 MB)				
> 🖂 📜 UBS Conves (15.2 MB)				
> 🖂 👢 U87 Voctors (29.2 MB)				
> 🔄 📜 US9 Probability (8.7 MB)	~			
acation on your PC: Critisers/Valco/Houston County H., VPrsCalculus - 2017-2018 PreCalculus		-		
idected: \$62.0 MB Remaining space or C 11.7 GB	Start syne			

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.

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	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
	Unit 1 Number System Fluency	6/1/2018 10:32 AM	File folder
of the Grade Math - 2017-2018 6th	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 /	ᡖ 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
Foundations of Algebra - 2017-2	ᡖ 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 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

College Readiness Mathematics Unit 1 – Linear, Quadratics, Complex Numbers, Polynomials

		1 st Semester	
C		August 4 - December 18	
		3-16 (Fall Holiday); November 11 (Veteran's Da	
•		Georgia Standards of Excellence	2020-2021 Pacing Guide
^µ Essenti		ΣSupporting	*Additional
	atic equations with complex solu	d polynomial equations in this unit. Students will itions. Students will compare functions and relat	
EACHING M/	AP FOR UNIT 1:		
Essential	^Σ Supporting *Additio	nal	
Cor	mplex Numbers	Solving Linear, Quadratic and	Function vs. Relation
		Polynomial Functions	
 Use any method 	hod to solve quadratics with a	 Solve quadratics using any method with 	• Define and Identify functions
complex soluti		real number solutions	 Interpret expressions & parts of
• The meaning		• Factor polynomials with complex numbers	expressions (terms, factors,
	ith Complex Numbers:	• Know & apply the Binomial Theorem	coefficients, etc.) in term of context
	traction, Multiplication	 Rewrite simple rational expressions in 	• Rewrite expressions in different
	jugate of complex numbers and	different forms using inspection, long	equivalent forms to reveal & explain
use the complex conjugate to divide complex numbers	division or technology	properties (ex. Use difference of two	
	 Solving linear equations & inequalities in 	squares to rewrite a binomial)	
		one variable	• Compare properties of two functions
		represented in a different way	
			• Write a function given applications,
			and combine functions using
			arithmetic operations in context
.CN.1 ^μ Understan .CN.2 ^{Σ} Use the r .CN.3 ^{Σ} Find the	relation $i^2 = -1$ and the commutative conjugate of a complex number; use	In that $i^2 = -1$, and every complex number has the form associative, and distributive properties to add, subtraction the conjugate to find the absolute value (modulus) ar	ct, and multiply complex numbers.
CN.1 ^μ Understar .CN.2 ^Σ Use the r .CN.3 ^Σ Find the .REI.4 ^μ Solve qua .REI.4 ^μ Solve qua popopriate to the i .CN.7 ^μ Solve qua rmula. .CN.8 Extend pol .APR.5 Know and	relation $i^2 = -1$ and the commutative conjugate of a complex number; usi- adratic equations in one variable. Juadratic equations by inspection (e. initial form of the equation (limit to re- adratic equations with real coefficient lynomial identities to include factoring d apply that the Binomial Theorem of	, associative, and distributive properties to add, subtract e the conjugate to find the absolute value (modulus) ar g., for $x^2 = 49$), taking square roots, factoring, completi	ct, and multiply complex numbers. ad quotient of complex numbers. Ing the square, and the quadratic formula, as quare roots, completing the square, and the quadr as $(x + 2i)(x - 2i)$.
CN.2Σ Use the r CN.3Σ Find the REI.4 ^μ Solve qua REI.4 ^μ Solve qua propriate to the i CN.7 ^μ Solve qua rmula. CN.8 Extend pol APR.5 Know and ith coefficients de APR.6 Rewrite s	relation $i^2 = -1$ and the commutative conjugate of a complex number; usuadratic equations in one variable. Juadratic equations by inspection (e. initial form of the equation (limit to readratic equations with real coefficient lynomial identities to include factoring d apply that the Binomial Theorem e etermined using Pascal's Triangle.	associative, and distributive properties to add, subtract e the conjugate to find the absolute value (modulus) ar g., for $x^2 = 49$), taking square roots, factoring, completing earl number solutions). Its that have complex solutions by (but not limited to) so ing with complex numbers. For example, rewrite x2 + 4 gives the expansion of (x + y) ⁿ in powers of x and y for earl forms using inspection, long division, or a computer	ct, and multiply complex numbers. ad quotient of complex numbers. Ing the square, and the quadratic formula, as quare roots, completing the square, and the quadr as $(x + 2i)(x - 2i)$. a positive integer n, where x and y are any numb- algebra system; write $a(x)/b(x)$ in the form $q(x) +$
CN.1 ^μ Understan .CN.2 ^Σ Use the r .CN.3 ^Σ Find the .REI.4 ^μ Solve qua .REI.4 ^μ Solve qua .REI.4 ^μ Solve qua .CN.7 ^μ Solve qua .CN.8 Extend pol .APR.5 Know and th coefficients de .APR.6 Rewrite s .APR.6 Rewrite s .APR.6 Rewrite s .APR.6 Rewrite s	relation $i^2 = -1$ and the commutative conjugate of a complex number; usi- adratic equations in one variable. Juadratic equations by inspection (e. initial form of the equation (limit to re- adratic equations with real coefficient lynomial identities to include factoring d apply that the Binomial Theorem e- etermined using Pascal's Triangle. * simple rational expressions in differen- x), b(x), q(x), and r(x) are polynomial that a function from one set (the inp	associative, and distributive properties to add, subtract e the conjugate to find the absolute value (modulus) are g., for $x^2 = 49$), taking square roots, factoring, completing earl number solutions). Its that have complex solutions by (but not limited to) so any with complex numbers. For example, rewrite x2 + 4 and gives the expansion of (x + y) ⁿ in powers of x and y for earl forms using inspection, long division, or a computer ls with the degree of r(x) less than the degree of b(x). So but, called the domain) to another set (the output, called	ct, and multiply complex numbers. ad quotient of complex numbers. Ing the square, and the quadratic formula, as quare roots, completing the square, and the quadr as $(x + 2i)(x - 2i)$. a positive integer n, where x and y are any numb algebra system; write $a(x)/b(x)$ in the form $q(x) + \frac{1}{2}$
CN.1 ^μ Understar .CN.2 ^Σ Use the r .CN.3 ^Σ Find the .REI.4 ^μ Solve qua .REI.4 ^μ Solve qua propriate to the i .CN.7 ^μ Solve qua irmula. .CN.8 Extend pol .APR.5 Know and ith coefficients de .APR.6 Rewrite s x)/b(x), where a(x .IF.1 Understand kactly one element	relation $i^2 = -1$ and the commutative conjugate of a complex number; use adratic equations in one variable. Juadratic equations by inspection (e. initial form of the equation (limit to re- adratic equations with real coefficient lynomial identities to include factoring d apply that the Binomial Theorem of etermined using Pascal's Triangle. Simple rational expressions in difference (x), b(x), q(x), and r(x) are polynomial that a function from one set (the input nt of the range, i.e. each input value	associative, and distributive properties to add, subtract e the conjugate to find the absolute value (modulus) are g., for $x^2 = 49$), taking square roots, factoring, completing all number solutions). Its that have complex solutions by (but not limited to) so ing with complex numbers. For example, rewrite $x^2 + 4 + 4$ gives the expansion of $(x + y)^n$ in powers of x and y for ent forms using inspection, long division, or a computer ls with the degree of $r(x)$ less than the degree of $b(x)^{-2}$ wit, called the domain) to another set (the output, called maps to exactly one output value. If f is a function, x is	ct, and multiply complex numbers. ad quotient of complex numbers. Ing the square, and the quadratic formula, as quare roots, completing the square, and the quadr as $(x + 2i)(x - 2i)$. a positive integer n, where x and y are any numb- algebra system; write $a(x)/b(x)$ in the form $q(x) + \frac{1}{2}$
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CN.1 ^μ Understan .CN.2 ^Σ Use the r .CN.3 ^Σ Find the .REI.4 ^μ Solve qua .REI.4 ^μ Solve qua .REI.4 ^μ Solve qua .REI.4 ^μ Solve qua .REI.4 ^μ Solve qua .CN.7 ^μ Solve qua .CN.7 ^μ Solve qua .CN.7 ^μ Solve qua .CN.8 Extend pol .APR.5 Know and .APR.6 Rewrite s .APR.6 Rewrite s .SSE.1 Understand .SSE.1 Interpret .SSE.1 Interpret .SSE.1 Given si .SSE.2 Use the s quares that can b	relation $i^2 = -1$ and the commutative conjugate of a complex number; use adratic equations in one variable. juadratic equations by inspection (e. initial form of the equation (limit to re- adratic equations with real coefficient lynomial identities to include factoring d apply that the Binomial Theorem (etermined using Pascal's Triangle. simple rational expressions in difference (x), b(x), q(x), and r(x) are polynomial that a function from one set (the input nt of the range, i.e. each input value to f the range). Graphically, the grap opperties of two functions each repre- graph of one function and an algebra expressions that represent a quantit t parts of an expression, such as ter ituations which utilize formulas or ex- structure of an expression to rewrite the factored as $(x^2 - y^2) (x^2 + y^2)$.	, associative, and distributive properties to add, subtract e the conjugate to find the absolute value (modulus) are g., for $x^2 = 49$), taking square roots, factoring, completing earl number solutions). Its that have complex solutions by (but not limited to) so ing with complex numbers. For example, rewrite $x^2 + 4$, gives the expansion of $(x + y)^n$ in powers of x and y for earl forms using inspection, long division, or a computer ls with the degree of $r(x)$ less than the degree of $b(x)$. ² with called the domain) to another set (the output, called maps to exactly one output value. If f is a function, x is the is $y = f(x)$. Is sented in a different way (algebraically, graphically, nu- atic expression for another, say which has the larger ma- try in terms of its context. Σ ms, factors, and coefficients, in context. Σ expressions with multiple terms and/or factors, interpret it in different equivalent forms. For example, see $x^4 -$	ct, and multiply complex numbers. de quotient of complex numbers. Ing the square, and the quadratic formula, as quare roots, completing the square, and the quadr as $(x + 2i)(x - 2i)$. a positive integer n, where x and y are any number algebra system; write $a(x)/b(x)$ in the form $q(x) + \frac{1}{2}$. I the range) assigns to each element of the domain is the input (an element of the domain), and $f(x)$ is the immerically in tables, or by verbal descriptions). For aximum. the meaning (in context) of individual terms or fact y^4 as $(x^2)^2$ - $(y^2)^2$, thus recognizing it as a difference
CN.1 ^μ Understan .CN.2 ^Σ Use the r .CN.3 ^Σ Find the .REI.4 ^μ Solve qua .REI.4 ^μ Solve qua .REI.4 ^μ Solve qua .REI.4 ^μ Solve qua .REI.4 ^μ Solve qua .CN.7 ^μ Solve qua .APR.6 Rewrite s .APR.6 Rewrite s .APR.6 Rewrite s .APR.6 Rewrite s .APR.6 Rewrite s .APR.6 Rewrite s .SSE.1 Understand .SSE.1 Understand .SSE.1 Interpret .SSE.1a Interpret .SSE.1b Given si .SSE.2 Use the s quares that can b .SSE.3 Choose a .REI.1 Using alge- if given two or m	relation $i^2 = -1$ and the commutative conjugate of a complex number; use adratic equations in one variable. juadratic equations by inspection (e. initial form of the equation (limit to re- adratic equations with real coefficient lynomial identities to include factoring d apply that the Binomial Theorem (etermined using Pascal's Triangle." simple rational expressions in different x), b(x), q(x), and r(x) are polynomial that a function from one set (the input nt of the range, i.e. each input value t of the range). Graphically, the grapt opperties of two functions each repre- graph of one function and an algebra expressions that represent a quantit t parts of an expression, such as ter ituations which utilize formulas or ex- structure of an expression to rewrite the factored as $(x^2 - y^2) (x^2 + y^2)$. ^µ and produce an equivalent form of a ebraic properties and the properties nore steps of an equation, explain the	, associative, and distributive properties to add, subtract e the conjugate to find the absolute value (modulus) are g., for $x^2 = 49$), taking square roots, factoring, completing all number solutions). Its that have complex solutions by (but not limited to) so ing with complex numbers. For example, rewrite $x^2 + 4$, gives the expansion of $(x + y)^n$ in powers of x and y for ent forms using inspection, long division, or a computer ls with the degree of $r(x)$ less than the degree of $b(x)^{-2}$ uut, called the domain) to another set (the output, called maps to exactly one output value. If f is a function, x is then is $y = f(x)$. Is sented in a different way (algebraically, graphically, nu- atic expression for another, say which has the larger ma- try in terms of its context. Σ ms, factors, and coefficients, in context. Σ expressions with multiple terms and/or factors, interpret	ct, and multiply complex numbers. de quotient of complex numbers. Ing the square, and the quadratic formula, as quare roots, completing the square, and the quadr as $(x + 2i)(x - 2i)$. a positive integer n, where x and y are any numb- algebra system; write $a(x)/b(x)$ in the form $q(x) + \frac{1}{2}$. I the range) assigns to each element of the domain is the input (an element of the domain), and $f(x)$ is the imerically in tables, or by verbal descriptions). For aximum. the meaning (in context) of individual terms or fact y^4 as $(x^2)^2$ - $(y^2)^2$, thus recognizing it as a difference antity represented by the expression. tion equation. Students should justify their own steps.

	Monday		Tuesday	We	dnesday	Т	hursday		Friday
Aug	3	Aug	4	Aug	5	Aug	6	Aug	7
	Summer				UNI	T1			
		COMPLE	X NUMBERS		→				
		First	Day of School						
	$\langle \rangle$								
Aug	10	Aug	11	Aug	12	Aug	13	Aug	14
7 tug	10	7105				7.005	15	/ tug	74
COMPL	EX NUMBERS, cont'd								→
	,								
Aug	17	Aug	18	Aug	19	Aug	20	Aug	21
Aug	17	Aug	10	UNI		Aug	20	Aug	21
FUNCTI	ON vs. RELATION								1
Tonen									•
Aug	24	Aug	25	Aug	26	Aug	27	Aug	28
Aug	24	Aug	25	Aug UNI		Aug	27	Aug	20
SOLVIN	G LINEAR QUADRATIC, E	XPONENT	IAL, AND QUADRAT						>
	,		,		-				
Aug	31	Sept	1	Sept	2	Sept	3	Sept	4
1.008				UNI			y		-
SO	LVING LINEAR, QUADRA	TIC AND P	OLYNOMIAL FUNC		· -				I
Sept	7	Sept	8	Sept	9	Sept	10	Sept	11
	LABOR DAY			L	UNI	T 1			
			SOLVI	NG LINEAR	, QUADRATIC, A	AND POLY	NOMIAL FUNCTI	ONS	
Sept	14	Sept	15	Sept	16	Sept	17	Sept	18
		<u> </u>	<u> </u>	UNI		I	±/		10
	SOLVING LINEAR, QI					Targe	t Date – Unit 1 I	Review	/Assessment
	SOLVING LINEAN, Q	CADINATIO	C, AND FOLMON		10110	- Targe	-Bute Onit-11	Neview	Assessment

College Readiness Mathematics Unit 2 – Graphing and Describing Linear, Quadratic and Polynomial Functions

	1 st Semester	
5	ist 4 - December 18	
September 7 (Labor Day Holiday); October 13-16 (Fall Holida College Readiness Mathematics Georgia Sta); November 23-27 (Thanksgiving Holiday) 2020-2021 Pacing Guide
		*Additional
In this unit students, will:		
Graph and describe linear, quadratic, and polynomial fur	nctions.	
In this unit students will graph linear, quadratic and polynomial fun increase/decrease, intercepts, slope(linear), and axis of symmetry	· · · · · · · · · · · · · · · · · · ·	
Teaching Map for Unit 2		
μ (Green) – Essential Standards Σ (Blue) – Supporting Standards	ds * (Orange/Red) – Additiona	l Standards
Graphing and Describing Functions	Writi	ng Functions
 Create & graph linear, exponential, quadratic, & polynomial functions, & show key features Identify characteristics of linear, exponential, quadratic & polynomial functions Calculate & interpret average rate of change Relate the domain of a function to its graph 	equivalent forms & (ex. Write a linear formation of the second	cion in different but explain different properties unction in slope-intercept m, write a quadratic function tex form, then identify the can see in each form) of parallel and perpendicular e polynomial identities and describe relationships (ex. x ² ² + (2xy) ² can be used to hagorean triples)

F.IF.4^µ Using tables, graphs, and verbal descriptions, interpret the key characteristics of a function which models the relationship between two quantities. Sketch a graph showing key features including: intercepts; interval where the function is increasing, decreasing, positive, or negative; relative maximums and minimums; symmetries; end behavior. (Limit to rational functions.)

F.IF.5^{Σ} Relate the domain of a function to its graph and, where applicable, to the quantitative relationship it describes. For example, if the function h(n) gives the number of person-hours it takes to assemble n engines in a factory, then the positive integers would be an appropriate domain for the function. (Limit to radical and rational functions.)

F.IF.6^{Σ} Calculate and interpret the average rate of change of a function (presented symbolically or a as a table) over a specified interval. Estimate the rate of change from a graph.

F.IF.7 Graph functions expressed algebraically and show key features of the graph both by hand and by using technology. ^µ

F.IF.8 Write a function defined by an expression in different but equivalent forms to reveal and explain different properties of the function.

F.IF.9 Compare properties of two functions each represented in a different way (algebraically, graphically, numerically in tables, or by verbal descriptions). For example, given a graph of one function and an algebraic expression for another, say which has the larger maximum.

A.CED.2 Create linear, quadratic, and exponential equations in two or more variables to represent relationships between quantities; graph equations on coordinate axes with labels and scales. (The phrase "in two or more variables" refers to formulas like the compound interest formula, in which A = P(1 + r/n)nt has multiple variables.)

F.BF.3 Identify the effect on the graph of replacing f(x) by f(x) + k, k f(x), f(kx), and f(x + k) for specific values of k (both positive and negative); find the value of k given the graphs. Experiment with cases and illustrate an explanation of the effects on the graph using technology. Include recognizing even and odd functions from their graphs and algebraic expressions for them.

A.APR.4 Prove polynomial identities and use them to describe numerical relationships. For example, the polynomial identity $(x^2 + y^2)^2 = (x^2 - y^2)^2 + (2xy)^2$ can be used to generate Pythagorean triples. *

UNIT 2: Linear, Quadratic & Polynomial Functions SUGGESTED PACING CALENDAR

Monda	у	Tues	day	Wednesday		Т	hursday	Friday	
Sept	21	Sept	22	Sept	23	Sept	24	Sept	25
					IT 2				
Fundamental TI Algebro Zero Product 1	a	Graphing a Zeros from gr zeros, list	aphs, given		r Quadratic and tic Division		Functions etic Division		oot Theorem, c Division
Sept	28	Sept	29	Sept	30	Oct	1	Oct	2
					IT 2				
		Graphing a	and Characteri	istics of Linea	r Quadratic and	Polynomial	Functions		
Oct	5	Oct	6	Oct	7	Oct	8	Oct	9
			UNI						
	Graphing an		s of Linear Qu		olynomial Funct	ionsi		INSI	RVICE
Oct	12	Oct	13	Oct	14	Oct	15	Oct	16
FALL BRI	AK	FALLB	REAK	FAH	BREAK	FAI	BREAK	FALL	BREAK
Oct	19	Oct	20	Oct	21	Oct	22	Oct	23
					IT 2				
PARALLEL AND PI	ERPENDICULA	AR LINES			→			Target Data Assessment	

College Readiness Mathematics Unit 3 – Systems of Equations

	1 st Semester	•
	August 4 - December 18	
		teran's Day); November 23-27 (Thanksgiving Holiday)
PEssential	ess Mathematics Georgia Standards of Excellen ΣSupporting	nce 2020-2021Pacing Guide *Additional
n this unit students will:	Capporang	
Solve systems of linear, quadratic	and polynomial equations using various methods	
)		
	using graphing, substitution, and elimination. Equations s	hould be linear, quadratic, and polynomial.
TEACHING MAP FOR UNIT . u (Green) – Essential Standards	3: ∑ (Blue) – Supporting Standards	* (Orange/Red) – Additional Standards
	Solving Systems	
	• Graphing Systems of linear, quadrat	tic and
	polynomial equations.	
	 Solve a system of linear, quadratic, a 	and
	polynomial equations by substitution	
	why the method works	
	• Solve a system of linear, quadratic,	and
	polynomial equations by elimination	
	why the method works	
	 Solve systems using tables and succ 	essive
	approximation	
	 Represent constraints by systems of 	fequations
	and inequalities	
A.CED.3 Represent constraints by e	quations or inequalities, and by systems of equation	is and/or inequalities, and interpret data points as
	ble (i.e. a non-solution) under the established const	
	limination method works to solve a system of two-v	
		focusing on pairs of linear equations in two variables.
	sting of a linear equation and a quadratic equation in tion between the line y = –3x and the circle x2 + y2 =	
		the equation f(x) = g(x) is the x-value where the y-value
of f(x) and g(x) are the same.		

UNIT 3: SYSTEM OF EQUATIONS

SUGGESTED PACING CALENDAR

Monday	Tuesday	Wednesday	Thursday	Friday
Oct 26	Oct 27	Oct 28	Oct 29	Oct 30
		UNIT 3		
SOLVING SYSTEMS OF EQUAT	IONS			→
Nov 2	Nov 3	Nov 4	Nov 5	Nov 6
		UNIT 3		
SOLVING SYSTEMS OF EQ	UATIONS			→
Nov 9	Nov 10	Nov 11	Nov 12	Nov 13
UN	IIT 3	Veteran's Day		
SOLVING SYSTEMS OF EQUAT	TONS→		Target Date – Unit 3	Review/Assessment
	,			

College Readiness Mathematics Unit 4A – Rational and Radical Functions

1 st Seme	ster					
August 4 - Dece	ember 18					
September 7 (Labor Day Holiday); October 13-16 (Fall Holiday); Noven						
College Readiness Mathematics Georgia Standards						
PEssential ΣSupport	ting *Additional					
In this unit students will:						
Define rational exponents						
 rewrite expressions involving radicals and rational exponents 						
• Explore Radical Functions (also discussions of "closure").						
 Perform arithmetic operations with radical expressions and simplify 						
 Investigate the properties of simple radical functions and then exp 	oand their knowledge of the graphical behavior and					
characteristics						
 Solve equations and inequalities involving radical functions – under 	erstanding extraneous solutions are sometimes					
generated.						
• Apply radical functions with an emphasis on interpretation of real	world phenomena of the radical expressions					
 Compose linear, quadratic, polynomial, and radical functions. 						
TEACHING MAP FOR UNIT 4A:						
μ (Green) – Essential Standards ∑ (Blue) – Supportin	g Standards * (Orange/Red) – Additional Standards					
Unit 4A – Radical Expressions, Equations, & Functions						
 Rational vs. Irrational numbers 						
 Rewrite Radical Expressions as Expressions Containing 	Unit 4b – Approx. 6 weeks total 3 weeks simplifying & solving					
Rational Exponents	3 weeks graphing					
	Rational Expressions, Equations & Functions					
• Simplify Expressions Written with Radicals or Rational						
Expressions	 Simplify, Add, Subtract, Multiply & Divide Rational 					
 Simplify, Add, Subtract, Multiply & Divide Radical 	* Note: Make sure to address ester values. This					
Expressions	concept is critical for Set Understanding of					
\circ Solve Radical Equations (with real world applications) –	Note: Make sure to add semester concept is critical ford Semestanding of settraneo Second desymptotes.					
include extraneous solutions	Include Extraneous Solutions					
○ Graph Radical Functions (square root & cube root) –	 Graph Simple & Complex Rational Functions Using Key Characteristics such as Vertical Asymptotes & Holes 					
Notice Behavior & Key Characteristics such as Domain,	(discontinuities), X-intercepts, Y-intercepts, & End Behaviors					
Range, End Behavior, Symmetry & Transformations	(Horizontal & Oblique Asymptotes)#					
 Composition of functions 						
 Relate the domain of a function to its graph 						
 Write a function in different but equivalent forms to 						
explain different properties						
N.RN.1 ^µ Explain how the meaning of rational exponents follows from exten						
allowing for a notation for radicals in terms of rational exponents. For exam	nple, we define 5 ¹¹ to be the cube root of 5 because we want [5 ¹¹]					
$=5^{[(1/3)\times 3]}$ to hold, so $[5^{(1/3)}]^3$ must equal 5.						
$\textbf{N.RN.2}^{\Sigma}$ Rewrite expressions involving radicals and rational exponents using	g the properties of exponents.					
A.REI.2 ^µ Solve simple rational and radical equations in one variable, and g	give examples showing how extraneous solutions may arise.					
F.IF.4 ^µ Using tables, graphs, and verbal descriptions, interpret the key	characteristics of a function which models the relationship between					
two quantities. Sketch a graph showing key features including: intercepts	; interval where the function is increasing, decreasing, positive, or					
negative; relative maximums and minimums; symmetries; end behavior.	(Limit to rational functions.)					
$\textbf{F.IF.5}^{\Sigma}$ Relate the domain of a function to its graph and, where applicable,	, to the quantitative relationship it describes. For example, if the					
function h(n) gives the number of person-hours it takes to assemble n engines in a factory, then the positive integers would be an appropriate						
domain for the function. (Limit to radical and rational functions.)						
F.IF.7 ^µ Graph functions expressed algebraically and show key features of t	he graph both by hand and by using technology. (Limit to rational					
functions.)						
F.IF.7b ^µ Graph square root, cube root, and piecewise-defined functions, i						
F.IF.8 Write a function defined by an expression in different but equivalent	forms to reveal and explain different properties of the function.					
F.BF.3 Identify the effect on the graph of replacing $f(x)$ by $f(x) + k$, $k f(x)$, $f(k)$						
find the value of k given the graphs. Experiment with cases and illustrate ar						
recognizing even and odd functions from their graphs and algebraic express	sions for them.					

Monday		Tuesday	Wednesday	Thursday	Friday
Nov 1	.6	Nov 17	Nov 18	Nov 19	Nov 20
			UNIT 4A		
SIMPLIFY RADICAL EXE EXPONENTIAL OR RAD		-	COMPOSITION OF FUNCTIONS	j	I
Nov 2	3	Nov 24	Nov 25	Nov 26	Nov 27
		27	Thanksgiving Break	20	1107 21
	_				
Nov 3	0	Dec 1	Dec 2	Dec 3	Dec 4
			UNIT 4A		
		SSIONS/NOTE CHARACTERISTICS- ept, domain, range, intervals of		 	→
increase and decrease, to	urnin	ng points,			
end behavior, average ra odd, neither, transforma		f change over an interval, even, s			
Dec	7	Dec 8	Dec 9	Dec 10	Dec 11
	<u> </u>	UNIT 4A	.		
		GRAPH RADICALSI		Target Date – Unit 4A	Review/Assessment
		domain, range, intervals of increase and c of change over an interval, even, odd, neith			
5			· ·		
		r			
Dec 1	.4	Dec 15	Dec 16	Dec 17	Dec 18
Fina	l Ex	ams Review		Final Exams	
					Last day of school (½ day)

College Readiness Mathematics Unit 4B – Rational and Radical Functions

	2 nd Semester	
	January 5 - May 26	
	resident's Day Holiday); February 16 (Student	
	Georgia Standards of Excellence	2020-2021 Pacing Guide
^µ Essential	ΣSupporting	*Additional
n this unit students will:		
Rewrite expressions involving rational expo		
Explore Rational Functions (also discussion		
Perform arithmetic operations with rationa		
Investigate the properties of simple rationa		ge of the graphical behavior and
characteristics of more complex rational fun		
•Solve equations and inequalities involving		
•Apply rational functions with an emphasis of TEACHING MAP FOR UNIT 4A:	on interpretation of real world phenomena	of the rational expressions
μ (Green) – Essential Standards	∑ (Blue) – Supporting Standards	* (Orange/Red) – Additional Standards
µ (Green) – Essential Standards		
	Unit 4b – Rational	Expressions, Equations, &
	F	unctions
	○ Simplify Add Subtract	t, Multiply, & Divide Rational
	Expressions	, Multiply, & Divide Rational
		dress excluded values. This
Note: Make sure to addresmester concept is critical ind Semestanding of Second desymptotes.		ood understanding of extraneous
concept is critical ford Settinderstanding of	solutions and asymptotes	_
Secon secon		ns (with real world applications)
	•Include Extraneous So	· · · · · · · · · · · · · · · · · · ·
		lex Rational Functions Using Key
		Vertical Asymptotes & Holes
		cepts, Y-intercepts, & End
	Behaviors (Horizontal &	· · · · · · · · · · · · · · · · · · ·
		erbal descriptions to interpret key
	characteristics of functio	
		two functions represented in
	different ways	
		ansformations on the graph
	• Relate the domain of a t	
N REL 2 ^H Solve simple rational and radical equat		

A.REI.2^µ Solve simple rational and radical equations in one variable, and give examples showing how extraneous solutions may arise.

F.IF.4^µ Using tables, graphs, and verbal descriptions, interpret the key characteristics of a function which models the relationship between two quantities. Sketch a graph showing key features including: intercepts; interval where the function is increasing, decreasing, positive, or negative; relative maximums and minimums; symmetries; end behavior. (Limit to rational functions.)

F.IF.5² Relate the domain of a function to its graph and, where applicable, to the quantitative relationship it describes. For example, if the function h(n) gives the number of person-hours it takes to assemble n engines in a factory, then the positive integers would be an appropriate domain for the function. (Limit to radical and rational functions.)

F.IF.7^µ Graph functions expressed algebraically and show key features of the graph both by hand and by using technology. (Limit to rational functions.)

F.IF.7d^µ Graph rational functions, identifying zeros and asymptotes when suitable factorizations are available, and showing end behavior.

F.IF.9 Compare properties of two functions each represented in a different way (algebraically, graphically, numerically in tables, or by verbal descriptions). For example, given a graph of one function and an algebraic expression for another, say which has the larger maximum.

F.BF.3 Identify the effect on the graph of replacing f(x) by f(x) + k, k f(x), f(kx), and f(x + k) for specific values of k (both positive and negative); find the value of k given the graphs. Experiment with cases and illustrate an explanation of the effects on the graph using technology. Include recognizing even and odd functions from their graphs and algebraic expressions for them.

A.APR.7^µ Understand that rational expressions form a system analogous to the rational numbers, closed under addition, subtraction, multiplication, and division by a non-zero rational expression; add, subtract, multiply, and divide rational expressions.

Jan	4	Jan 5	Jan	6	Jar	n 7	Jan 8
Inservice				UNI	T 4B	3	
		Rational Operations, Exclude	ed Va	lues			
Jan	11	Jan 12	Jan		Jar	n 14	Jan 15
Solv	o Rot	ional Equations, Extraneous s	olutic	UNIT 4B			<u> </u>
	e nal	ional Equations, Extraneous s		JIIS			
Jan	18	Jan 19	Jan	20	Jan	n 21	Jan 22
MLK Holiday	/		I	UNI	T 4B		
		Solve Rational Equations, E	xtran	eous solutions			→
Jan	25	Jan 26	Jan	27	Jan	n 28	Jan 29
				UNIT 4B			,
		Asymptotes, Characteristics pt, domain, range, intervals of					→
increase and decrease, tu	Irning	points, end behavior, average					
		terval, even, odd, neither, mations					
Feb	1	Feb 2	Feb	3	Feb	b 4	Feb 5
			I	UNIT 4B			
		Asymptotes, Characteristics					>
		pt, domain, range, intervals of points, end behavior, average					
		terval, even, odd, neither, mations					
	-						
Feb	8	Feb 9	Feb		Feb	b 11	Feb 12
Graph Rationals				UNIT 4B		Target Date – Unit 4B	Review/Assessment
Zeros, End Behavior, Y in	terce	pt, domain, range, intervals of		•		Target Date Onit 4D	Action Assessment
		points, end behavior, average terval, even, odd, neither,					
		mations					

College Readiness Mathematics Unit 5 – Exponential and Logarithmic Functions

2 nd Se	emester
•	5 - May 26
	y); February 16 (Student Holiday) March 29-April 2 (Spring Break)
College Readiness Mathematics Georgia Standar	
In this unit, students will:	Define Logarithms and Natural Logarithms
 Review exponential functions and their graphs Explore Exponential Growth 	 Develop the Change-of-Base Formula Develop the Properties of Logarithms
 Develop the Concept of a logarithm as an exponent, along with the investigation 	
relationship with exponents	Functions
TEACHING MAP FOR UNIT 5:	
μ (Green) – Essential Standards Σ (Blue) – Supporti	ng Standards * (Orange/Red) – Additional Standards
Unit 5A – Properties and Equations of	Unit 5B – Graphing Exponentials (start by
Exponentials of Logarithms	comparing to Linear) & Logarithms
• Use the properties of exponents to transform	• Distinguish between linear or exponential situations
exponential functions	• Observe that exponential increasing functions will
• Concept of logarithm; convert between logarithmic &	always exceed polynomial functions
exponential forms	• Construct linear & exponential functions given
 Evaluate logarithms by hand 	different representations
\circ Base 'e' (note: this is the first introduction to 'e')	o Interpret the parameters of linear & exponential
○ Properties of logarithms – power property, quotient	functions in terms of context
property, product property, & identity	• Graphing exponential & logarithmic functions &
• Solve exponential & logarithmic equations	show key features such as intercepts, end behavior,
	asymptote, periodicity, etc.
	• Relate the domain of a function to its graph
	• Graph exponential equations in two or more
	variables with labels and scales (ex. $A=P(1 + r/n)nt$
	• Use the idea of inverse functions (Note: this is the
	first intro to inverse functions.)
	• Compare properties of two functions represented in
	different ways
E DE En la destand the investor seletionship between successional loss of these and use this	• Identify the effects of transformations on a graph
F.BF.5 ^{μ} Understand the inverse relationship between exponents and logarithms and use this A SSE 3 ^{Σ} Choose and produce an equivalent form of an expression to reveal and explain p	roperties of the quantity represented by the expression. (Limit to exponential and logarithmic
functions.)	
A.SSE.3 $c\Sigma$ Use the properties of exponents to transform expressions for exponential function $\approx 1.012^{(12)}$ to reveal the approximate equivalent monthly interest rate if the annual rate is 15	ons. For example, the expression 1.15 , where t is in years, can be rewritten as $[1.15^{(1/12)}]^{(12)}$ %.
$F.IF.7^{\mu}$ Graph functions expressed algebraically and show key features of the graph both by	
F.IF.7e ^µ Graph exponential and logarithmic functions, showing intercepts and end behavior.	
scales. (The phrase "in two or more variables" refers to formulas like the compound interest	
F.IF.4 Using tables, graphs, and verbal descriptions, interpret the key characteristics of a fur features including: intercepts; interval where the function is increasing, decreasing, positive,	
F.IF.5 Relate the domain of a function to its graph and, where applicable, to the quantitative it takes to assemble n engines in a factory, then the positive integers would be an appropriat	
F.IF.82 Write a function defined by an expression in different but equivalent forms to reveal a functions.)	and explain different properties of the function. (Limit to exponential and logarithmic
F.IF.9 Compare properties of two functions each represented in a different way (algebraicall of one function and an algebraic expression for another, say which has the larger maximum.	
F.BF.3 Identify the effect on the graph of replacing $f(x)$ by $f(x) + k$, $k f(x)$, $f(kx)$, and $f(x + k)$ for	or specific values of k (both positive and negative); find the value of k given the graphs.
Experiment with cases and illustrate an explanation of the effects on the graph using techno	
expressions for them. F.LE.1 Distinguish between situations that can be modeled with linear functions and with exp	ponential functions.
F.LE.2 Construct linear and exponential functions, including arithmetic and geometric seque	
reading these from a table)	
	eventually exceeds a quantity increasing linearly, quadratically, or (more generally)
as a polynomial function. F.LE.4 For exponential models, express as a logarithm the solution to ab(ct) = d where a, c,	and d are numbers and the base h is $2, 10$ or example the logarithm using technology
F.LE.5 Interpret the parameters in a linear ($f(x) = mx + b$) and exponential ($f(x) = a \cdot dx$) function	
function, and "a" and "d" are the parameters of the exponential function.) In context, students	

COLLEGE READINESS UNIT 5: EXPONENTIAL AND LOGARITHMIC FUNCTIONS SUGGESTED PACING CALENDAR

	Monday	Tuesday	Wednesday	Thursday	Friday
Feb	15	Feb 16	Feb 17	Feb 18	Feb 19
PR	ESIDENTS DAY	INSERVICE		UNIT 5A	
	\smallsetminus		Review Exponents, Work of	on Exponent Fact Fluency	I
	\times				
	$\langle \rangle$				
Feb	22	Feb 23	Feb 24	Feb 25	Feb 26
Expond	nt/Log Polationshin	as Inverses, solve equations	UNIT 5A real world applications (Newton's	Law of Cooling Halflife II	ntoroct ->
Expone		as inverses, solve equations,		Law of Cooling, HairLife, II	
Mar	1	Mar 2	Mar 3	Mar 4	Mar 5
			UNIT 5A	-	
Solving	Simple Exponential	and Log Eqs applications, bas	e "e," "In"		I
Mar	8	Mar 9	Mar 10	Mar 11	Mar 12
-		T 5A A Review/Assessment	Graph Exponential and Logarith	UNIT 5B mic Functions, real world	applications→
			Zeros, End Behavior, Y intercept,		
			domain, range, intervals of increase and decrease, turning		
			points, end behavior, average rate of change over an interval,		
			even, odd, neither,		
	45		transformations		
Mar	15	Mar 16	Mar 17	Mar 18	Mar 19
		Graph Exponential and Loga	UNIT 5B arithmic Functions, attributes of e	xp & log graphs→	
	os, End Behavior, Y				
inter	cept, domain, range, vals of increase and				
	se, turning points, end vior, average rate of				
change	over an interval, even,				
	ither, transformations				
Mar	22	Mar 23	Mar 24	Mar 25	Mar 26
Gran	h Exponential and Lo	garithmic Functions, attribute	UNIT 5B es of exp & log graphs→	Target Date - Unit	5B Review/Assessment
Grap				Target Date - Offic	So he viewy Assessment

College Readiness Mathematics Unit 6 – Inequalities

	2 nd Semester	
	January 5 - May 26	
		udent Holiday) March 29-April 2 (Spring Break)
College Readiness Mathema	itics Georgia Standards of Excellenc	e 2020-2021 Pacing Guide
^µ Essential	ΣSupporting	*Additional
this unit students are graphing and s	olving compound inequalities. Students wi	ill graph linear inequalities in two variables.
tudents will create linear equalities.		
EACHING MAP FOR UNIT 6:		
μ (Green) – Essential Standards	∑ (Blue) – Supporting Standards	* (Orange/Red) – Additional Standards
Linear Inequalities in	One Variable Linea	r Inequalities in Two Variables
Solve equations & inequalities	including equations o Solve	& interpret data as possible or not possible
with variable coefficients	solutio	ons
• Write & solve equations & ine	qualities o Graph	the solution set to a linear inequality
Justify the steps of solving a si	mple equation using	
algebraic properties		
CED 3* Represent constraints by equation	or inequalities and by systems of equation and	d/or inequalities, and interpret data points as possib
	lution) under the established constraints.	a or mequantes, and interpret data points as possie
CED.1* Create equations and inequalities nple rational, and exponential functions (in one variable and use them to solve problems integer inputs only).	. Include equations arising from linear, quadratic,
		simple, one-solution equation. Students should
	ore steps of an equation, explain the progression	
3 = 7, solve linear equations and inequalit	les in one variable including equations with coel	fficients represented by letters. For example, give

A.REI.12 Graph the solution set to a linear inequality in two variables.

UNIT 6: MATHEMATICAL MODELING

	Monday	Tuesday	Wednesday	Thursday	Friday
Mar	29	Mar 30	Mar 31	Apr 1	Apr 2
			Spring Break		
Apr	5	Apr 6	Apr 7	Apr 8	Apr 9
			UNIT 6		
		LINEA	R INEQUALITIES IN ONE VARI	ABLE	
Apr	12	Apr 13	Apr 14	Apr 15	Apr 16
			UNIT 6		
LINEA	R INEQUALITIES IN T	WO VARIABLES		Target Date – Unit 6 R	eview & Assessment

College Readiness Mathematics Unit 7 – Geometry

2 nd Semester	
January 5 - May 2	
January 18 (MLK Holiday); February 15 (President's Day Holiday); Febru	
College Readiness Mathematics Georgia Standards of Ex	•
PEssential ΣSupporting	*Additional
This Unit Students will use properties of polynomials to find perimeter, a	area, and volume. Students will use sine, cosine, and
angent to solve right triangles.	
EACHING MAP FOR UNIT 7:	
Perimeter, Area and Volume	Right Triangle Trigonometry
 Add, subtract and multiply polynomials Represent sides of polygons with polynomials to calculate perimeter, area, volume and surface area. Find perimeter and area on the coordinate plane. Apply geometric methods to solve design problems Apply concepts of density based on area & volume Use coordinates to prove simple geometric theorems Give informal arguments for geometric formulas Use units of measure as a way to understand problems Define appropriate quantities Rearrange formulas to highlight a specific variable 	 Application of Sin, Cos, Tan (this is additional based on input from surrounding college algebra teachers)
APR.1 Add, subtract, and multiply polynomials; understand that polynomials nder these operations. Σ Q.1 Use units of measure (linear, area, capacity, rates, and time) as a way to units of measure within context, within data displays, and on graphs; b. Convert and Metric-to-Metric without conversion factor provided and between English and Metric-to-Metric without conversion factor provided and between English and Metric-to-Metric without conversion factor provided and between English and Metric-to-Metric without conversion factor provided and between English and Metric-to-Metric without conversion factor provided and between English and Metric-to-Metric without conversion factor provided and between English and Metric-to-Metric without conversion factor provided and between English and Metric-to-Metric without conversion factor provided and between English and Metric-to-Metric without conversion factor provided and between English and Metric-to-Metric without conversion factor provided and between English and Metric-to-Metri	nderstand problems: a. Identify, use, and record appropriate units and rates using dimensional analysis (English-to-English
roblems and formulas; interpret units of input and resulting units of output.	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
.Q.2 Define appropriate quantities for the purpose of descriptive modeling. Giv	en a situation, context, or problem, students will determine,
lentify, and use appropriate quantities for representing the situation.	
.CED.4 Rearrange formulas to highlight a quantity of interest using the same rea	
= IR to highlight resistance R; Rearrange area of a circle formula A = π r2 to high	
.GPE.4 Use coordinates to prove simple geometric theorems algebraically. For e	
oints in the coordinate plane is a rectangle; prove or disprove that the point (1,	vs) lies on the circle centered at the origin and containing the
oint (0,2). (Focus on quadrilaterals, right triangles, and circles.)	en en el se este mellos de la contra esta en la contra de l
.GPE.7 Use coordinates to compute perimeters of polygons and areas of triangl	
.GMD.1 Give informal arguments for geometric formulas. a. Give informal argu	
f a circle using dissection arguments and informal limit arguments. b. Give infor	mai arguments for the formula of the volume of a cylinder,
yramid, and cone using Cavalieri's principle.	in and land
.GMD.3 Use volume formulas for cylinders, pyramids, cones, and spheres to so	
	ons (e.g., persons per square mile, BTUs per cubic foot).
.MG.2 Apply concepts of density based on area and volume in modeling situation. .MG.3 Apply geometric methods to solve design problems (e.g., designing an oll post; working with typographic grid systems based on ratios).	of structure to satisfy physical constraints of minimize

M	onday	Tu	esday	Wednesday		Thursday	/		Friday
Apr	19	Apr	20	Apr	21	Apr	22	Apr	23
		1		UNIT 7				1	
		PERIMI	TER, AREA VOLU	JME				1	
Apr	26	Apr	27	Apr	28	Apr	29	Apr	30
				UNIT 7					
			RI	GHT TRIANGLE TRIGOI	NOMET	RY		_	
May	3	May	4						
		IT 7							
Targ	et Date – Unit 7		ssment						
		[

College Readiness Mathematics Unit 8 – Statistics and Sequences

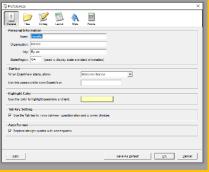
	emester 5 - May 26 w) Estauran 47 (Student Velider) Marsh 20 April 2 (Spring Brock)
	.). Estavisario 14 (Etudent Helideus) Mersh 20 April 2 (Environ Break)
College Reaginess Mathematics Georgia Standa	
	rds of Excellence 2020-2021 Pacing Guide *Additional
	ents will identity types of data and compare one and two variable data
ts. Students write arithmetic and geometric sequences.	
EACHING MAP FOR UNIT 8:	
Statistics	Sequences
 Make inferences about population parameters based on a random sample. Decide if a specified model is consistent with results from a data-generating process Recognize the purposes and differences among sample surveys, experiments and observational studies Use data from a sample survey to estimate a population mean or develop a margin of error Use data from a randomized experiment to compare two treatments Evaluate reports based on data for flaws in data, biases, collection methods, etc. Represent data w/ dot plots, histograms & box plots Compare the measures of center and spread Use the mean & standard deviation to fit a set to a normal distribution & estimate pop. percentages Interpret differences in shape, center & spread Create & interpret two-way frequency tables Represent two variable data on a scatterplot Interpret the slope & intercept of a linear model Compute & interpret the correlation coefficient & line of best fit Distinguish between correlation and causation 	 Write arithmetic sequences both explicitly and recursively, translate between the two forms, and connect to linear functions. Write geometric sequences both explicitly and recursively, translate between the two forms, and connect to exponential functions.
 mple from that population. IC.2^Σ Decide if a specified model is consistent with results or example, a model says a spinning coin falls heads up wou to question the model? IC.3^μ Recognize the purposes of and differences among stall now randomization relates to each. IC.4^μ Use data from a sample survey to estimate a populate use of simulation models for random sampling. IC.5^Σ Use data from a randomized experiment to compare tween parameters are significant. IC.6^Σ Evaluate reports based on data. For example, deter ases or flaws in data. ID.2^μ Use statistics appropriate to the shape of the data anterquartile range, mean absolute deviation, standard deviation of a data set 	ation mean or proportion develop a margin of error throug are two treatments; use simulations to decide if difference mining quantitative or categorical data; collection method distribution to compare center (median, mean) and sprea viation) of two or more different data sets. to fit it to a normal distribution and to estimate population hich such procedure is not appropriate. Use calculator

S.ID.3 Interpret different effects of extreme data quantitative variables S.ID.5 Summarize catego the context of the data associations and trends S.ID.6 Represent data of S.ID.7 Interpret the slop data. S.ID.8 Compute (using the at a scatterplot, studen reasonable estimate of describe how strong the S.ID.9 Distinguish betwo	nces in shape, center, an points (outliers). Summ orical data for two cate (including joint, margin in the data. In two quantitative varia oe (rate of change) and rechnology) and interpr ts should be able to tell the "r" value.) After cal e goodness of fit of the een correlation and cau	sation.	of the data sets, account erpret data on two cates ency tables. Interpret rel ve frequencies). Recogni nd describe how the vari erm) of a linear model in ient "r" of a linear fit. (Fo ient is positive or negativ it using technology, stuc	gorical and ative frequencies in ze possible ables are related. the context of the or instance, by looking ye and give a lents should be able to
Monday	Tuesday	Wednesday	Thursday	Friday
		May 5	May 6	May 7
		STATISTICS-		>
Мау 10	May 11	May 12	May 13	May 14
May 10	May 11	May 12 UNIT 8	May 13	May 14
	Statistics		Sequ	ences
May 17	May 18	May 18	May 20	May 21
	SEQUENCES	UNIT 8	Poview	for Finals
May 24	May 25	May 26	May 27	May 28
	Final Exams	LAST DAY OF SCHOOL (½ Day)		

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.

7 Preferences	×	
E Deve interview		
- Default File Locations		
Set the default locations for opening and saving banks and tests:		
Question banks: coprogram files (x00/heinstruction/examines/ibanks		
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Online (LAN) tests: chprogram files (x0%/einstruction/examules/itests		
Orane (LAN) tests: cryrogrom tans (soci) construction accomption const		
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Help Save As Default	QK Cancel	

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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	>	ā	OneDrive - Personal	
	- V	1	Houston County Board of Education	
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		>	📙 8th Grade Math - 8th Grade Math 2017-201	
L.		>	📙 AC 6th Grade Math - 2017-2018 AC6 Mathe	
L		>	AC 7th Grade Math - 2017-2018 AC7 MATH	
L.		>	Advanced Algebra Algebra 2 - 2017-2018 A	¥
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			Select Cancel	

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.

	Step 1: Highlight the question banks you want to use and click the Select button.
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