



PARAMOUNT UNIFIED SCHOOL DISTRICT

GREAT THINGS ARE HAPPENING IN PARAMOUNT SCHOOLS



Board Study Session – April 28, 2020 Khan Academy District Partnership

Dr. Ruth Pérez, Superintendent

Dr. Ryan D. Smith, Assistant Superintendent, Secondary Educational Services

Dr. Greg Francois, Director, Secondary Educational Services



What is Khan Academy?

- Leading core-curricular online learning resource in the United States
- Online courses provide students with a personalized learning experience
- Courses include:
 - Video tutorials
 - Practice problems
 - Assessments
- “Mastery System”



Courses Khan Academy Supports

[Courses](#) ▾



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Math	Math by grade	Science & engineering	Arts & humanities	Test prep
Early math	Preschool	Physics	US history	SAT
Arithmetic	Kindergarten	AP® Physics 1	AP® US History	LSAT
Pre-algebra	1st grade	AP® Physics 2	World history	Praxis Core
Algebra 1	2nd grade	Cosmology & astronomy	World History Project - Origins (beta)	MCAT
Geometry	3rd grade	Chemistry	AP® World History	GMAT
Algebra 2	4th grade	AP® Chemistry beta	US government and civics	IIT JEE
Trigonometry	5th grade	AP® Chemistry	AP® US Government & Politics	NCLEX-RN
Precalculus	6th grade	Organic chemistry	Art history	College, careers, & more
Statistics & probability	7th grade	Biology	AP® Art History	College admissions
AP® Calculus AB	8th grade	High school biology	Grammar	Careers
AP® Calculus BC	Illustrative Mathematics	AP® Biology	Storytelling	Personal finance
AP® Statistics	Eureka Math/EngageNY	Health & medicine		Entrepreneurship
Multivariable calculus	High school	Electrical engineering	Economics & finance	Growth mindset
Differential equations	Khan Kids, an app (ages 2-7)	Computing	Macroeconomics	ELA beta
Linear algebra	Math, Reading & Social Emotional Learning	Computer programming	AP® Macroeconomics	2nd grade reading
		Computer science	Microeconomics	3rd grade reading
		AP® Computer Science	AP® Microeconomics	4th grade reading
		Principles	Finance & capital markets	5th grade reading
		Hour of Code		6th grade reading
		Computer animation		7th grade reading
				8th grade reading
				9th grade reading

Why Khan Academy works



Khan Academy Mastery System

Subjects ▾ Yuki Inoue

< Math · Geometry

Addition and subtraction

80/700 · 8% Level 1 450 points to Apprentice

Skill summary ?

- Adding two and three-digit numbers
- Adding with regrouping within 1000
- Quiz 1: 10 questions
Level up in the above skills
- Subtracting with regrouping within 1000
- Addition and subtraction missing value problems
- Unit test
Level up in all the skills!

Leveled up to Level 1!

Your journey on this unit has begun! Collect 370 more mastery points to reach the next level!

- ### Three-digit numbers
- digit addition problems
 - ups of 10 and 100
 - ▶ Adding and subtracting on number line 2
 - ▶ Estimating adding and subtracting 3-digit numbers

Practice

- Break apart 3-digit addition problems**
Proficient 80/100 points
[Take unit test to level up](#)
- Up next for you:**
Add using groups of 10 and 100
Get 7 of 7 questions to levelup!
[Start](#) 0/100 points

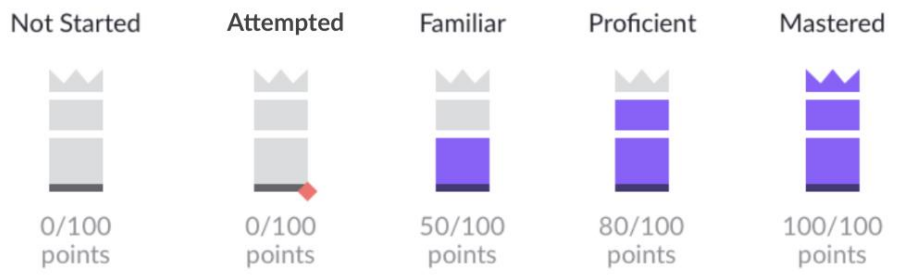
- ### Adding with regrouping within 1000
- Learn
- ▶ Adding 3-digit numbers
 - ▶ Adding with regrouping
 - ▶ Measuring angles using a protractor 2
 - ▶ Adding 3-digit numbers with regrouping

Practice

- Add within 1000**
Get 7 of 7 questions to levelup!
[Practice](#) 0/100 points



Khan Academy Mastery System



Level up on 8 skills

Level up on the skills covered by this Unit test and collect up to 240 Mastery points

This test takes about 6 - 8 minutes

Take the Unit Test to reach Mastered and collect 240 Mastery points

Skill level summary

Add within 5	Mastered
Subtract within 5	Proficient
Making 5	Proficient
Making small numbers in different ways	Not Started
Make 10 (grids and number bonds)	Proficient
Make 10	Proficient
Add within 10	Proficient
Subtract within 10	Proficient

10 questions

[Start Unit test](#)



How can we use Khan Academy to support student achievement in mathematics?

- Broadly offer Khan Academy to every math student as a tool beginning this summer
- Require students in foundational math courses to practice for one hour per week
 - Algebra 1, Geometry, Algebra 2
 - Can be completed in class, outside of class, or combination
- Will be used as a support in additional math courses



How can else would Khan Academy be helpful?

- Addressing “COVID Slide”
 - Summer Enrichment
 - Ongoing student support
 - Easy for students to use independently
 - Easy for parents to monitor
- Distance learning resource continued school closures
- Supporting college readiness
 - PSAT/SAT scores linked to Khan Academy
 - Personalized test prep
- Supplementing AP test preparation



What metrics would we pay attention to?

- Usage
 - Student
 - One hour per week goal in foundational math courses
 - Teacher
- Achievement
 - Khan Academy mastery levels
 - Course grades
 - Local assessments
 - SBAC interim/summative assessments
 - SAT/AP scores
- Feedback
 - Student
 - Teacher and staff
 - Parent



Next Steps

- An agreement will be brought to the Board for consideration at the May meeting
- If approved, planning with Khan Academy will begin that will include:
 - Professional development
 - Creation of teacher, staff, and student accounts
 - Rostering
- Goal: Broad usage beginning this summer