

AP Calculus Summer Assignment
Ms. Coleman, ccoleman@salemk12.org

Do Today (June 8, 2018)

1. Sign up for **Khanacademy.org**

Sign up at khanacademy.org (or log in with their existing accounts)

Visit khanacademy.org/coaches

There, in the "Add a coach" field, enter the class code **YJ528P63**

2. Sign up for **Remind.com**

Text **@shscal19** to the number **81010** (or to receive messages via email, send an e-mail to **shscal19@mail.remind.com**)

If possible, I recommend downloading the Remind app to your smart phone to be able to communicate any questions or concerns directly with me via their messaging system.

The summer assignment consists of three parts:

1. Create a notebook/binder in which they will:
 - Read and take thorough notes on each section in Chapters 1 and 2
2. Complete all skill recommendations on Khanacademy by their given due date. Each skill must be at a level of Practiced or above.
3. Complete an assessment on the standards covered in the summer assignment the first week of school.

Skills on Khanacademy will include but not be limited to:

Trigonometry

Evaluate inverse trig functions

Solve sinusoidal equations (basic)

Solve sinusoidal equations

Sinusoidal models word problems

Conics

Graph a circle from its features

Features of a circle from its graph

Features of a circle from its standard equation

Graph a circle from its standard equation

Write standard equation of a circle

Features of a circle from its expanded equation

Graph a circle from its expanded equation

Equation of a parabola from focus and directrix

Equation of a hyperbola from features

Limits

One-sided limits from graphs

Two-sided limits from graphs

Finding limits numerically

Two sided limits using algebra

Two-sided limits using advanced algebra

Continuity

Limits at infinity where $f(x)$ is unbounded

Limits at infinity where x is unbounded

Squeeze Theorem

Other Important Skills

Order of Operations

Area Volume Formulas

Factoring

Simplifying Rational Functions

Exponent/Logarithm Rules

Unit Circle