MATES Freshman Math Summer Assignment – Summer 2016

The purpose of this summer assignment is to review content necessary for success in Algebra 1 or Research and Mathematical Analysis (RMA). This assignment will consist of watching video lectures and completing corresponding practice exercises. To do this, you will create an account on khanacademy.org and add us (the MATES math department!) as your coach. By linking student/teacher accounts, your teacher will be able to view your progress on both watching the videos and completing the exercises. You MUST have us linked as your coach and be logged into your account for the videos and exercises you do to count!

We hope that these videos will provide a way for you to fill in any gaps before you begin Algebra or RMA. Use this as a learning opportunity, and not something that just needs to be done. The videos are short and to the point, and will give you a basic overview of the topic. You may start with the exercises and watch the videos as needed (i.e. the videos are not required, only the exercises).

The practice exercises will help you learn and give us evidence of your learning. There are lots of exercises to practice, so DO NOT wait until the end of the summer to work on this!! Depending on the exercise, you may have to get 3 or 5 right in a row before you achieve the “practiced” level. Once you achieve that, you can continue to practice or move on to the next exercise set if you are feeling confident.

Work throughout the summer and continue to practice. We will be checking in from time to time and expect to see you progressing through the videos/exercises as we go through summer. If you have questions at any time, you can e-mail mates.math@gmail.com for help. Khanacademy can change its setup at any time, so please email us if you are having any trouble following the directions. Since it is summer, we may not check the e-mail account every day, but it will be regularly checked. Once you are finished with the assigned exercises, feel free to continue practicing the other algebra topics, or explore the site and learn something new! Have fun!

Instructions on creating and linking your account:

1. Go to khanacademy.org. If you already have an account, you may use it, or click the link to make a new account. Choose to sign in either with google or a khanacademy account. Do not sign in with facebook, because you will not be able to log in this way on the school servers in September.
2. It may ask you to “choose a mission”, you can choose anything you want – we do not require you to complete any of the premade missions.
3. Once you have signed up and verified your account, you need to add us as your coach. It may ask you to add a coach during sign up, or you may have to get to that option by going through your profile. Once you are logged in to khanacademy.org, go into your profile by clicking your name in the upper right corner, then click profile. Once you are on your profile page, click “Coaches”. From here you can enter the class code FDJCF4.
4. Now you should have us as your coach! Do not do any of the work until mates.math is your coach! We won’t know what you do unless we are your coach!
**Exercise sets to complete:**

Please note that since we do not control the content on khanacademy, the links and names might change during the summer. If there are major changes, we will update this assignment, but do not fear – any work you have already done will still be visible to us as your coach.

Go to the table of contents page for Algebra 1 by clicking Subjects (top left on main page) -> Algebra 1 -> Table of Contents or via this link: https://www.khanacademy.org/math/algebra?t=table-of-contents

Once here, you will see the different main topics of the Algebra 1 content. Each topic has several videos to watch and several exercise sets to complete. You will have to complete the following topics:

- Units of measurement in modeling: https://www.khanacademy.org/math/algebra/units-in-modeling
- Functions: https://www.khanacademy.org/math/algebra/algebra-functions
- Linear equations and functions word problems: https://www.khanacademy.org/math/algebra/linear-word-problems

Note that the exercise sets have stars next to their names and the videos have triangles next to them. You must complete the exercise sets (do enough until you achieve the “practiced” level) but you may watch the videos to help (i.e. the videos are not required viewing but are extremely useful when you get stuck). Make sure you watch the video first before doing the exercises if it is a new topic for you.

Make sure that every time you go to khan academy, you log in first so that we can see your progress! Also, feel free to explore any other topics in the algebra 1 content that you may want extra practice on!