

Hello,

Please read this e mail in its entirety as there is a lot of important information to help your child get off to a great start. There are summer homework assignments that must be completed before the first day of school. There are some AP and Honors high school courses that require summer homework in preparation of the first day of school. This course will allow your child to experience this early on so they are aware of the importance of preparation. Please see the SUMMER HOMEWORK ATTACHMENT TO GET START THE WORK!

I hope you have had a great summer thus far. I am very excited to begin the year in challenge science. This course covers many topics in chemistry and physics. We will also cover the basics of biochemistry. When you have the discipline to work hard you will learn so much in this course! Students who have worked hard in this class have developed deep scientific knowledge and effective study skills that allow them to be very successful at the high school while taking on the challenge of a heavy honors and AP course load.

SCHOOL SUPPLIES (Do not spend a lot of \$\$):

- 3 ring binder (Can be shared with other class)
- Pencils
- Pens (Multiple Colors)
3-4 Highlighters (Multiple Colors)
- 8 Spiral Notebooks (basic...cost effective)
- Scientific Calculator TI 30 or 34 series

BEFORE THE FIRST DAY OF SCHOOL:

Here is your summer work that must be completed, there is no turn in until the first day of school.

Please print out the attached packet. It is expected that you watch the following videos and complete the corresponding worksheets to be prepared for the first day of school. Upon your arrival you should have mastered these topics for the first day of school. These skills are foundational skills that we will use throughout the year.

- [ON DEMAND Dimensional Analysis Video](#)
 - Worksheet to Accompany the video is page 8, 9 of the attached packet
- [ON DEMAND Counting Atoms Video](#)
 - Worksheet to Accompany the video is page 14 of the attached packet
- [ON DEMAND Balancing Equations Video](#)
 - Worksheet to Accompany the video is page 18, 19 of the attached packet
- 71 Element Symbols on the quizlet link you must know the name and symbol (spelled correctly).
 - [Quizlet link](#)

You are to complete the following required pages that will be due on the first day of school.

Required Pages that must be accurate and complete
3,5,6,7,8,9,10,12,14,15,16,18,19,20,21,23

Optional Pages you don't have to complete but provide extra practice if you need it:
4, 11, 13, 17, 22, 24

Two of these pages will be graded for accuracy, therefore if you want an A, all of these pages must be done completely and accurately. There will be time during SSS the first week of school to get help/feedback on your work. I assign long term homework like this for every chapter because it forces kids to select their homework each night and manage their time for the tests.

We will cover the above material thoroughly during the first two days of school, but I expect that you will have *mastered* the material so you can learn it effectively. *I am very excited for the year to begin, and therefore I wanted to share some preliminary information with you!* Please take a few minutes each day and familiarize yourself with this material. You will be amazed at how much you will have grown as a student in June if you commit to working hard and buying in!!!! Please enjoy the rest of your summer and it is expected that you take some time before you arrive to prepare for the first week of school, we will begin instruction immediately on the first day.

FIRST EXAM WEDNESDAY SEPTEMBER 1:

Your first exam will be on the following topics:

- Dimensional Analysis
- Scientific Notation
- Counting Atoms
- Balancing Equations

As you can tell I am fired up to start this school year as I look forward to seeing many of you work hard and have fun!

Sincerely,

Mr. Parsia