

Summer Math Assignment Incoming 7TH Grade

Dear Parents of OLA Middle School Students,

Experts from Johns Hopkins University, the University of Tennessee, the University of Virginia and elsewhere say most students, regardless of family income or background, lose 2 to 2 1/2 months of the math computational skills that they learned during the school year. These findings suggest the obvious, children lose math ability when they don't use it.

This summer, to prevent this learning loss, keep the students' math computational skills sharp, and to reinforce the skills that they learned this year, we will be using an interactive website math program, IXL. It is our hope that this will help all of our students enter their next math course well prepared and ready to go!

Over the summer, students are expected to complete at least **10 hours** of math skills practice within IXL. Our hope is that the review will take place over the entire summer rather than during the last few days before we return to school. Ideally, your child will be working on IXL about three times a week over the course ten weeks. All work should be completed between **June 15th and August 31st**. **Work completed after this deadline, although great, WILL NOT be counted towards your grade.** If you do not have a home computer, we encourage you to visit a local library or partner with a friend with internet access.

The summer assignment will be graded based on the amount of time spent actively working on IXL and it will be weighted as the equivalent of a test - 100 points. Thus, each $\frac{1}{2}$ hour fully completed is worth 5 points. Any student who goes above the assigned 10 hours will receive 1 point of extra credit for each extra hour of work they do! It is an easy way to start the term with an A+!

It is our hope that the students will find this a valuable opportunity. If you have any questions, please feel free to contact me.

Patricia.fothergill@ourladyacademy.org

Thank you for your support!

Patty Fothergill

Dear Students,

This summer you need to practice **AT LEAST ten** hours of math skills on IXL. For each section listed below, you should reach a "smart score" of at least 80. Getting started is easy! Sign on to IXL using your username and password assigned during the school year. Choose the 6th grade tab, select a skill from the checklist attached and start answering questions! If you answer a question correctly, you will be given another question. If your answer is wrong you will be given an explanation of why your answer is wrong. Once you understand it, click on "Got it" and you will be given another question.

The skills you are assigned will be needed in the course you are entering in the fall. If you encounter an assigned skill that you don't remember, or think that you have not learned, you can view tutorials on the topic at www.khanacademy.org as well as other websites you find helpful.

The checklist refers to the 6th **Grade material** that each of you need to work on. Individually, I have attached a report of trouble spots you encountered during the school year. These are areas that **you** need to work on to improve **your** knowledge. When working on these individual areas of trouble, you might need to watch Khan Academy videos and do some practice on the concept at a lower grade level to start.

If you complete the material in your grade level before you have spent 10 hours working, please either go back to the sections you had most difficulty with and try to beat your previous score **OR** challenge yourself by finding the corresponding skill in 7th grade and attempt those problems!

If you have any questions, email me! My email is patricia.fothergill@ourladyacademy.org. I will answer within a day or two.

Have a great summer!

Mrs. Fothergill

Exponents and square roots

- Write multiplication expressions using exponents
- Evaluate exponents
- Find the missing exponent or base

Number theory

- Convert between standard and scientific notation
- Prime factorization
- Greatest common factor
- Least common multiple
- GCF and LCM: word problems

Add and subtract decimals

- Add and subtract decimal numbers

Multiply and divide decimals

- Multiply decimals
- Division with decimal quotients

Fractions and mixed numbers

- Write fractions in lowest terms
- Least common denominator
- Convert between improper fractions and mixed numbers

Add and subtract fractions

- Add and subtract fractions with unlike denominators
- Add and subtract mixed numbers

Multiply fractions

- Multiply two fractions
- Multiply fractions: word problems
- Multiply mixed numbers

Divide fractions

- Reciprocals
- Divide fractions
- Divide fractions and mixed numbers

Operations with integers

- Add integers
- Subtract integers
- Multiply integers
- Divide integers

Ratios and rates

- Identify equivalent ratios
- Solve the proportion

Two-dimensional figures

- Identify and classify polygons
- Measure and classify angles

One-variable equations

- Solve one-step equations with whole numbers
- Solve one-step equations with decimals, fractions, and mixed numbers
- Solve two-step equations