

Dear Incoming 8th Grade Students and Parents,

Welcome to 8th grade! To prepare your child for Pre-Algebra, a summer work packet has been created. The purpose is to reinforce the skills they learned in seventh grade math and to fine tune any areas that they may have struggled with. All problems will be completed in the **seventh grade section of IXL**. IXL is an excellent tool and we use it daily in class. It provides immediate feedback and worked solutions when a problem is answered incorrectly. The problems are also tiered so as they master the easier problems, they move on to more difficult ones. The students are very familiar with IXL.

Students are required to get a minimum of 10 problems correct in each section. Once they have gotten 10 correct, they may move onto the next section. I highly recommend that your child has a paper and pencil when completing these problems. It will be difficult to complete many of them without a paper and pencil. This helps them think about the process of each problem and allows them to look back and check for errors if needed. A calculator is not allowed to complete summer work. In order to excel in math, one must practice and keep calculation skills sharp. If your child struggles, encourage them to search for videos on the topic, look back at notes from seventh grade, or email me. As they move into eighth grade we want to encourage independence and problem solving skills. It is very important that your child is able to demonstrate independent understanding of the skills.

When we return in September we will take one day to answer any questions that may remain and review. The following day there will be a quiz which will consist of questions taken directly from IXL; similar, if not identical to the problems your child may have seen over the summer. The quiz will be graded and count towards their first marking period grade.

I am looking forward to a great school year! Have a great summer!

Mrs. Little

Pre-Algebra Teacher

Little Silver School District

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Incoming Pre-Algebra Summer Work:

1. Log into IXL.com/signin/littlesilver.
Your username is your graduation year, last name, first initial: **example:** 19littlem
Your password is the last three numbers of your student ID: **example:** 123
If you are new to the district you must contact the school to be added to the IXL roster.
2. Below is a list of the topics you need to practice over the summer with recommended dates to help you pace yourself. Sometimes IXL updates and changes the topic numbers. If the topic does not match the number given, complete the topic listed! You need to keep track of the number of problems you answer correctly. IXL date and time stamps all of the work that is completed and I will be checking in over the summer. Even if your child completed problems in these topics during their seventh grade year they still need to get 10 problems correct over the summer.
3. If you are getting the problems wrong, read the worked out solution. IXL does a wonderful job at providing this feedback. If you are still struggling try searching the topic on [khanacademy.org](https://www.khanacademy.org) or email me at mlittle@littlesilverschools.org for assistance.
4. I will be quizzing you in September on these topics so be sure that you can complete these problems independently. Too much assistance will not help you in the long run.

To be completed by August 1st	To be completed by September 1st
B.7 Integer inequalities with absolute values	J. 1 Understanding Ratios
C.11 Add and subtract integers using counters	J.10 Scale Drawings: scale factor word problems
C.12 Add and subtract integers	L.3 Compare percents to fractions and decimals
C.13 Complete addition and subtraction equations with integers	L.6 Percents of numbers: Word Problems
C.20 Integer multiplication and division rules	L.7 Solve percent equations
C.21 Multiply and divide integers	L.8 Solve percent equations: word problems
C.22 Complete Multiplication and division equations with integers	L.9 Percent of change
C.24 Evaluate numerical expressions involving integers	L.10 Percent of change: word problems
G.1 Add and subtract fractions	R.3 Write variable expressions: word problems
G.9 Multiply fractions	S.8 Solve equations involving like terms
G.12 Divide fractions	S.9 Solve Equations: Complete the Solution