Fessenden Summer Math 2025

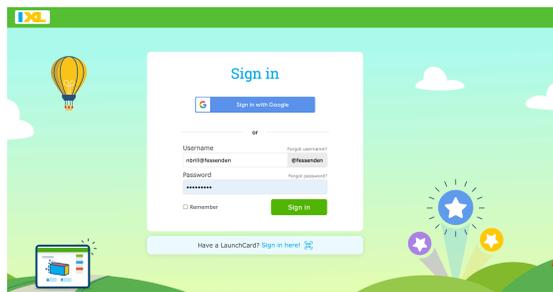## For students who just completed: *Algebra 1 - Linear Concepts*

To prepare for a successful school year, you are required to review and practice the listed math skills over the summer using IXL. Mastery is demonstrated by either achieving a SmartScore of **80 or higher** *or* spending at least **30 minutes** on each skill. After completing a skill, your parent or guardian must **initial next to it** to confirm completion. Your progress will be saved on IXL and can be viewed by the Fessenden math teaching team. As you work, the problems will become more challenging—you are welcome to continue until you reach a SmartScore of 100. You will be **assessed on these skills** when you return to school. Be sure to bring this completed assignment—with all required initials—to your **first math class** of the year.

To access this document digitally, go to: https://bit.ly/fessylinearconcepts
or use the QR code on the right.

How to login (returning students):
1. Go to: https://www.ixl.com/signin/fessenden
2. Click the blue box that says "Sign in with Google" and choose your Fessenden email to login. You have been enrolled using your Fessenden email address.

How to login (students new to Fessenden for the 2026-2027 school year):
1. Go to: https://www.ixl.com/signin/fessenden
2. **Username:** your first name and last name (ex: rebeccapalm)
3. **Password:** fessymath (*please be sure to change this to a secure, unique password upon logging in for the first time*)

If you are having trouble with any of the skills:
- Use the resources provided to you by IXL. There will be an explanation when you answer incorrectly, there is a helpful video with the skills, and there are example answers.
- Find the support through Khan Academy
- Use your notes from last year

Questions? Please email Ms. Brill at nbrill@fessenden.org. *Thanks!* 😊

Linear Concepts Skill/Topic *(*Remember to login to save your progress!)*	Your SmartScore	Parent or Guardian Initials
Week 1		
Slope-intercept form: write an equation		
Solve a system of equations using any method		
Point-slope form: write an equation		
Slopes of parallel and perpendicular lines		
Slope-intercept form: graph an equation		
Week 2		
Evaluate expressions using properties of exponents		
Square roots of perfect squares		
Add and subtract rational numbers		
Multiply and divide rational numbers		
Identify rational and irrational numbers		
Evaluate numerical expressions involving integers		
Week 3		
Solve equations: mixed review		
Identify equivalent expressions involving exponents		
Solve absolute value equations		
Mean, median, mode, and range: find the missing number		
Interpret charts and graphs to find mean, median, mode, and range		
Week 4		
Find the midpoint		
Find the distance between two points		
Solve proportions		
Convert between percents, fractions, and decimals		

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[Pythagorean theorem](#)		
Optional: Want to practice more math? Use the "Recommended Skills" listed on your IXL home screen to keep learning.		