



SHELTON BOARD OF EDUCATION

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Dear Students and Guardian(s),

According to research, students lose about 2.6 months of learning in mathematics over the summer. This phenomenon, also known as summer slide, can cause students to start the new academic year with a lower achievement level than where they left off at the closure of the prior year. Most importantly, researchers identify long-lasting effects from summer loss related to lower self-confidence, as well as success in school and college.

The Shelton Public School System has developed a Summer Math Challenge that can easily integrate into your summer plans. The program is designed to be developmentally appropriate for your student based on the grade level they will be entering for the 2019-2020 school year. We recommend scheduling time for your learner(s) to participate in this program.

The importance of spending time with family and enjoying the outdoors also provides valuable learning opportunities. Involvement in authentic experiences allow learners for knowledge transfer beyond the classroom and vice versa. Many daily scenarios provide opportunities for problem solving and reasoning, such as estimating time and cost of travel, doubling ingredients in family recipes, planning and budgeting for home projects, probability in sports and playing board games.

Specific Grade Summer Math Challenge for students in grades K-12, can be found at www.sheltonpublicschools.org under the Teaching and Learning tab.

We hope that you will participate in this year's summer math challenge and help our learners in maintaining and improving their math skills, as well as further develop their confidence in math during the summer.

Gavriela Ziu-Pires

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Interim Supervisor of Teaching and Learning-STEM

Pre-Calculus: Summer Learning Packet

We want to welcome you to Pre-calculus for the 2019-2020 school year. As you enjoy some time off this summer, we also want to ensure you are exercising the math portion of your brain! Below you will find a list of topics that you must review prior to the start of the new school year. The topics are divided by weeks to help you manage your time and workload. However, if you are in need to change the dates of any of the topics you have the flexibility to complete the work in your own timeframe.

Sincerely,

The Pre-Calculus Math team

Students MUST complete five problems in a row correctly for all of the topics above to earn full credit. Partial credit will be awarded as described below. If you struggle on any of the problems, please reference the videos for each topic and/or look for hints found on the right hand side of your screen when attempting a problem. Please note you do not have to complete all problems in one sitting. Khan Academy will remember where you left off. Be sure to log-in every time you do additional work!!

Grading for Khan Academy for each topic:

Credit can only be awarded for any work completed after June 14th, 2018
0 correct: 0 points
1 correct: 2 points
2 correct: 4 points
3 correct : 6 points
4 correct: 8 points
5 correct: 10 points (if applicable)

Khan Academy – YOU MUST LOG IN TO HAVE KHAN ACADEMY GIVE YOU CREDIT FOR YOUR WORK. How to Log Into Khan Academy to complete your summer work:

If you do not have an account yet:

1. Go to khanacademy.org
2. Click on Start Learning Now
3. Click on Sign in with Gmail
4. Create an Account with your SHELTON account
5. Type in the Search Engine Bar The topic you would like to complete or click on the link provided

If you have an account already with your Shelton email:

1. Go to khanacademy.org
2. Click on the log in button on the top right hand side of the screen
3. Log in with your email and password
4. Type in the Search Engine Bar the topic you would like to complete or click on the link provided

Summer Work Topics for Pre-Calculus: YOU MUST LOG IN TO HAVE KHAN ACADEMY GIVE YOU CREDIT FOR YOUR WORK©

Week	Topic	Link	Checklist
Week #1:	Factor Perfect Squares	http://tinyurl.com/zv9y8lb	
Week #2	Factoring Quadratics	http://tinyurl.com/pzjz9eu	
Week #3	Factor Polynomials: Quadratics Advanced	http://tinyurl.com/qxg9ccc	
Week #4	Find Zeros of Polynomials	http://tinyurl.com/jfoafpn	
Week #5	End Behavior of Polynomials: Even / Odd Function	http://tinyurl.com/z2v2rlo	
Week #6	Distance Formula	http://tinyurl.com/pmebbx3	
Week #7	Special Right Triangles	http://tinyurl.com/mncy46w	
Week #8	Simplifying Square roots	https://tinyurl.com/yah8ju2p	
Week #9	Quadratic Formula: Solving Quadratic Equations	http://tinyurl.com/pmze7xj	
Week #10	Midpoint Formula	http://tinyurl.com/mdmjc6h	