Dear Incoming 5th graders,

Welcome to 5th grade mathematics! My name is Ms. Nowlin and I will be your 5th grade math teacher at St. Mary of the Mills School! I am very happy to work with you all next school year! As you know summer is a time to relax and enjoy quality time with family. It is also a time to practice and reinforce skills you learned before the new school year starts! This year, students will complete XtraMath as a summer practice over the school year. XtraMath is a computer program that helps with mastery of basic math facts. You can log into **Xtramath.org** and select "sign up". Parents are to complete account information when you register. Students are to do extra math at least **once a week**. It only takes no less than 5 minutes a day! You will begin with addition, then subtraction, followed by multiplication and division. Your parents and I will be able to monitor your progress throughout the summer. Remember the more you practice the better you will become fluent in your math skills! When the program notices your fluency in basic math facts you will receive an award! How cool is that?

Extended work

You may also do IXL over the summer as well. Attached is a list of expected skills that you are to review and practice over the summer. Look at the list with your parents and circle the skills that you do not know. Then each week practice the skills. I am challenging you to complete 5 (or more) skills by the end of the summer. Complete the IXL log and turn it in by **September 7th!** If you complete those skills at a scaled score of 80 or above you will receive an academic prize from me for the first quarter!

Make sure to do your best and of course, have fun! If you have any questions you may contact me on Google Classroom.

Have a great summer break!

Ms. Nowlin

P.S.- If you are a new student at SMS. Welcome! Please email me (jnowlin@stmaryofthemills.org) so I can send you an XtraMath code. Thank you!

FIFTH GRADE
GRADE LEVEL EXPECTATIONS IN MATHEMATICS

When entering 5th grade, this is what is expected that your child should already know. If your child does not know a skill listed on this sheet circle them and review these skill on IXL.

1. Read and write whole numbers up to 1,000,000. **(A.1- A.8)**
2. Identify and write whole number place value up to 1,000,000. Ex. 23,905 is 2 ten thousands, 3 thousands, 9 hundreds, 0 tens, 5 ones. **(A.1- A.8)**
3. Round whole numbers to the nearest ten, hundred, and thousand. **(A.12)**
4. Order and compare whole numbers using the symbols less than (<), greater than (>), and equal to (=). **(A.15)**
5. Show mastery of all 12 multiplication and division facts for 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12. **(D.1 and E.1)**
6. A**dd, subtract, multiply and divide whole numbers <u>fluently</u>. (B.1-B.3, C.1-C.3, F.1, and F.2)**
7. Understand the relationship between multiplication and addition, between division and subtraction, and the inverse relationship between multiplication/division and addition/subtraction. **(B.1-B.3, C.1-C.3, F.1, and F.2)**
8. Use strategies for estimating results of whole number computation. **(B.8-B.9, C.6-C.7, D.12, D.13, E.26)**
9. Plot and label whole numbers on a number line up to 100.
10. Add and subtract fractions with like denominators. **(Q.1-Q13)**
11. Identify odd and even numbers. **(A.13)**
12. Identify and draw rays, right angles, acute angles, obtuse angles, and straight angles. **(Z.1-Z.2)**
13. Identify and draw lines, line segments, points, parallel and perpendicular lines. **(W.4-W.5)**
14. Identify and draw different types of quadrilaterals, triangles, polygons and non polygon figures. **(W.2, X.2-X.9)**
15. Understand lines of symmetry in geometric figures. **(Y.1-Y.4)**
16. Identify congruent and noncongruent shapes **(W.6)**
17. Measure, record and convert from a large unit to a smaller unit or small units to a larger unit. (length, volume, weight, money, etc.) **(M.1-M.9, N.1-N.19)**
18. Know and use the formulas in finding the area and perimeter of different shapes. **(BB.1-BB.11)**
19. Identify equivalent fractions. **(P.5-P.7)**
20. Name and write mixed numbers as improper fractions. **(P.4)**
21. Understand elapsed time. **(O.5-O.6)**
22. Represent data on a number line in tables. **(J.1-J.12)**
23. Interpret data graphs to answer questions about real world situations. **(J.1-J.12)**
24. Use problem solving skills in order to strategize and communicate their solutions to written problems. **(B.9, C.7, E.9, F.4-F.6)**

IXL Log

Directions: Choose at least 5 concepts and earn at least 80% with a *minimum of 15 questions per concept.* You can do more if you like! IXL logs are due on **<u>September 7th.</u> (**I provided an example below)

Grade	Topic	Section #	Section Title	Number of questions	Smart Score
4	Addition	B.1	Add Numbers Up to millions	15	85
4					
4					
4					
4					
4					