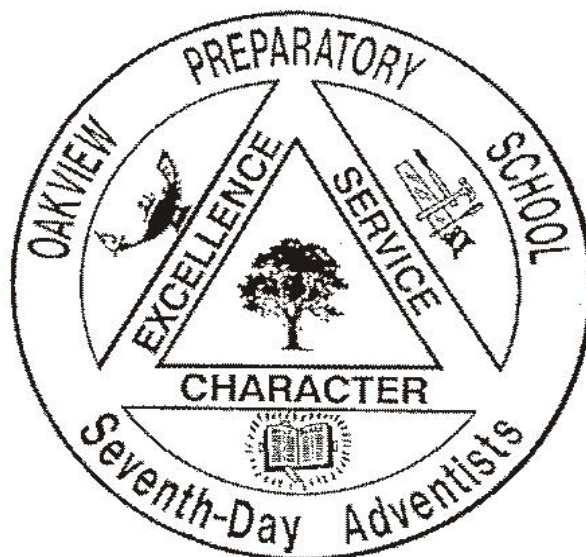


**Oakview Preparatory School
Long Range Plans Based on NYS and NAD
Standards
2021 - 2022**



Math – Grade 5

By: Ms. Michelle Mbugua

Math Curriculum

NOTE:

- **Curriculum:** Oakview Preparatory School Grade 5 - 8 Mathematics Curriculum is a **union** of both the North America Division Mathematics Curriculum, and the New York State Mathematics Curriculum.
- **Integration of Faith:** There will be an **integration of faith and learning** as per SDA beliefs
- **Projects:** There will be at least 1 project each marking period.
- **Summative final grades** are based on select assignments (homework, class work, projects, essays, etc.)
- **Exams** – There will be at least 2 tests each marking period.
- **Presentations:** Students may be asked to prepare and present topics as well as be grouped virtually to facilitate each other’s development and understanding of math concepts and skills.
- **Students** will be required to produce an online portfolio of specific assignments each marking period.
- **Students** will be required to use the internet and online resources, **including Jupiter**, to complete some assignments and quizzes.
- **Students will be required to produce work on time** –
 - Grade 5, 6, or 7 - late work will be penalized 10 % for each day late and will not be accepted after day 3, unless there is a valid written excuse by the parent or a doctor.
 - Grade 8 - late work will be penalized 20 % for each day late and will not be accepted after day 2, unless there is a valid written excuse by the parent or a doctor.
- **Quality of work:** Students will be required to produce work that is neat and of a high standard. As much as possible the school’s website (www.oakviewprep.com), and e-mail communication will be used to keep parents up-to-date on topics being covered and student’s progress.
- **Topics:** These will be covered in conjunction with modules on www.EngageNY.org
- **Apps/Resources:** www.Khanacademy.org, www.IXL.com, www.youtube.com, MobyMax math program, READY problem solving text book for grade 6, 7, and 8; and other online and print resources. Curriculum will be complemented with state test preparation material.
- **Flipped Classroom:** Students will be assigned pre-class assignments, videos, and reading to complete independently. Pop quizzes may be given on the content of the pre-class assignment given.
- **Quizzes:** Weekly (Friday on Jupiter Ed).
- **Test Prep:** Practice test assignments will be given at the end of each chapter.
- **Makeup:** If makeups are given the maximum possible score will be 70%
- **Grading:** Test – 40%; Class work – 20%; Home work – 10%; Projects – 20%; Quizzes – 5%; Miscellaneous – 5%

Mathematics Curriculum/Long Range Plans: 2021/2022 - Grade 5 Textbook Big Ideas Math 2022 edition (www.bigideasmath.com)

Month	Chapter	Sections and Common Core Standards	Objective
September	Chapter 1: Place Value concepts	Chapter Opener	Review of previous content
		1.1 – Place Value Patterns	Understand the relationship between place value positions P.3
		1.2 – Place Value with Whole Numbers	Write multi-digit numbers in different forms and compare the values of digits P.9
		1.3 –Patterns and Powers of 10	Write numbers using exponents P.15
		1.4 – Decimals to Thousandths	Write thousandths as fractions and decimals P.21
		1.5 – Place Value with Decimals	Write decimals in different forms and compare the value of digits P.27

		1.6 – Compare Decimals	Compare decimals to the thousandths place P.33
		1.7 – Round Decimals	Use place value to round decimals P.39
		Chapter 1 performance task	P. 45
		Chapt. 1 Review/Textbook test	Completed in class
		Chapter 1 Test	Completed in class/online
September	Chapter 2: Numerical Expressions	Chapter Opener	Review of previous content (Home)
		2.1 – Number Properties	Use number properties P.53
		2.2 – Order of Operations	Use order of operations to evaluate numerical expressions P.59
		2.3 – Write Numerical Expressions	Write numerical expressions P.65
		2.4 – Evaluate Expressions with Grouping Symbols	Use order of operations to evaluate numerical expressions with grouping symbols P.71
		Chapter 2 Performance task	P. 77
		Chapt. 2 Review/Textbook test	Completed in class
		Chapter 2 Test	Completed in class/online
October	Chapter 3: Add and Subtract Decimals	Chapter Opener	Review of previous content
		3.1 – Estimate Sums and Differences	Using rounding or compatible numbers to estimate sums and differences of decimals P.83
		3.2 – Use Models to Add and Subtract Decimals	Use models to add and subtract decimals P.89
		3.3 – Add Decimals	Add decimals and check whether the sum is reasonable P.95
		3.4 – Subtract Decimals	Subtract decimals and check my answer P.101
		3.5 – Add and Subtract Decimals	Use addition and subtraction to evaluate expressions involving decimals P.107
		3.6 – Use Mental Math to Add and Subtract Decimals	Use mental math to add and subtract decimals P.113
		3.7 – Problem Solving: Money	Solve multi-step word problems involving money P.119
		Performance Task/Activity	P.125, 126
		Chapter Practice/Review	P.127
		Chapter Test	In Class/Online
		STEAM Performance Task:1-3	P.135
October	Chapter 4: Multiply Whole Numbers	Chapter Opener	Review of previous content
		4.1 – Multiplication Patterns	Find products involving multiples of 10 and powers of 10 P.139
		4.2 – Estimate Products	Estimate products P.145
		4.3 – Multiply by One-Digit Numbers	How can I multiply one-digit numbers P.151
		4.4 – Multiply by Two-Digit Numbers	Multiply multi-digit numbers by two-digit numbers P.157
		4.5 – Multiply by Multi-Digit Whole Numbers	Multiply multi-digit numbers by whole numbers P.163

		Performance Task/Activity	P.169,170
		Chapter 4 Review/textbook	Completed in class
		Chapter 4 Test	In class/Online
November	Chapter 5: Multiply Decimals	Chapter Opener	Review of previous content
		5.1 – Multiplication Patterns with Decimals	Find products involving decimals and powers of 10 P.175
		5.2 – Estimate Products of Decimals and Whole Numbers	Use rounding and compatible numbers to estimate products of decimals and whole numbers P.181
		5.3 – Use Models to Multiply Decimals and Whole Numbers	Use models to multiply decimals and whole numbers P.187
		5.4 – Multiply Decimals and Whole Numbers	Multiply decimals and whole numbers P.193
		5.5 – Use Models to Multiply Decimals	Use models to multiply decimals P.199
		5.6 – Use Partial Products to Multiply Decimals	Use partial products to multiply decimals P.205
		5.7 – Use Strategies to Multiply Decimals	Use estimation and properties to multiply decimals P.211
		5.8 – Multiply Decimals	Multiply decimals P.217
		5.9 – Problem Solving: Multiply with Money	Solve multi-step problems involving money P.223
		Performance Task/Activity	P. 229
		Chapter Review / textbook test	Completed in class/home
		Chapter 5 Test	In class/Online
		November	Chapter 6: Divide Whole Numbers
6.1 – Relate Multiplication and Division	Use multiplication to divide P.237		
6.2 – Division Patterns	Use place value and division facts to find quotients P.243		
6.3 – Estimate Quotients	Use division facts and compatible numbers to estimate quotients P.249		
6.4 – Divide by One-Digit Numbers	Divide multi-digit numbers by one-digit numbers P.255		
6.5 – Use Partial Quotients to Divide by Two-Digit Numbers	Use an area model and partial quotients to divide P.261		
6.6 – Use Partial Quotients with a Remainder	Use partial quotients to divide with a remainder P.267		
6.7 – Divide Three-Digit Numbers by Two-Digit Numbers	Divide three-digit numbers by two-digit numbers P.273		
6.8 – Divide Four-Digit Numbers by Two-Digit Numbers	Divide four-digit numbers by two-digit numbers P.279		
6.9 – Problem Solving- Division	Solve word problems involving division of whole numbers P.285		
Performance Task/Activity	P. 291		
Chapter Review / Quiz	In class		
Chapter 6 Test	In class/Online		

December	Chapter 7: Divide Decimals	Chapter Opener	Review of previous content
		7.1 – Division Patterns with Decimals	Find quotients involving decimals and powers of 10 P.299
		7.2 – Estimate Decimal Quotients	Use compatible numbers to estimate quotients involving decimals P.305
		7.3 – Use Models to Divide Decimals by Whole Numbers	Use models to divide decimals by whole numbers P.311
		7.4 - Divide Decimals by One-Digit Numbers	Divide decimals by one-digit whole numbers P.317
		7.5 – Divide Decimals by Two-Digit Numbers	Divide decimals by two-digit whole numbers P.323
		7.6 – Use Models to Divide Decimals	Use models to divide decimals by decimals P.329
		7.7 – Divide Decimals	Divide decimals by decimals P.335
		7.8 – Insert Zeros in the Dividend	Insert zeros in the dividend when dividing with decimals and whole numbers P.341
		7.9 – Problem Solving: Decimal Operations	Solve word problems involving decimals P.347
		Performance Task/Activity	P. 353, 354
		Chapter Review / Quiz	In Class
		Chapter 7 Test	In Class/Online
		STEAM Performance Task:4-7	P.363
January	Chapter 8: Add and Subtract Fractions	Chapter Opener	Review of previous content
		8.1 – Simplest Form	Write fractions in Simplest form P.367
		8.2 – Estimate Sums and Differences of Fractions	Estimating sums and differences of fractions P.373
		8.3 – Find Common Denominators	Write fractions using a common denominator P.379
		8.4 – Add Fractions with Unlike Denominators	Add fractions with unlike denominators P.385
		8.5 – Subtract Fractions with Unlike Denominators	Subtract fractions with unlike denominators P.391
		8.6 – Add Mixed Numbers	Add mixed numbers with unlike denominators P.397
		8.7 – Subtract Mixed Numbers	Subtract mixed numbers with unlike denominators P.403
		8.8 – Problem Solving: Fractions	Solve multi-step word problems involving fractions and mixed numbers P.409
		Performance Task/Activity	P. 415, 416
		Chapter Review / Quiz	Text book in Class
		Chapter 8 Test	In class/online
February	Chapter 9: Multiply Fractions	Chapter Opener	Review of previous content
		9.1 – Multiply Whole Numbers by Fractions	Multiply whole numbers by fractions P.423
		9.2 – Use Models to Multiply Fractions by Whole Numbers	Multiply fractions by whole numbers P. 429
		9.3 – Multiply Fractions by Whole Numbers	Multiply fractions and whole numbers P.435

		9.4 – Use Models to Multiply Fractions	Use models to multiply a fraction by a fraction P.441
		9.5 – Multiply Fractions	Multiply a fraction by a fraction P.447
		9.6 – Find Areas of Rectangles	Find Areas of Rectangles P.453
		9.7 – Multiply Mixed Numbers	Multiply a mixed number by a mixed number P.459
		9.8 – Compare Factors and Products	Compare a product to each of it's factors P.465
		Performance Task/Activity	P.471/472
		Chapter Review / Quiz	Text book in class
		Chapter 9 Test	In class/online
February	Chapter 10: Divide Fractions	Chapter Opener	Review of previous content
		10.1 – Interpret Fractions as Division	Understand how fractions relate to division P.479
		10.2 – Mixed numbers as Quotients	Understand how mixed numbers relate to division P.485
		10.3 – Divide Whole Numbers by Unit Fractions	Divide whole numbers by unit fractions P. 491
		10.4 – Divide Unit Fractions by Whole Numbers	Divide whole numbers by unit fractions P.495
		10.5 – Problem Solving: Fraction Division	Solve multi-step word problems involving division with fractions P.503
		Performance Task/Activity	P. 509/510
		Chapter Review / Quiz	Text book in class
		Chapter 10 Test	Online test/ Take home
March	Chapter 11: Convert and Display Units of Measure	Chapter Opener	Review of previous content
		11.1 – Length in Metric Units	Write lengths using equivalent metric measures P.515
		11.2 – Mass and Capacity in Metric Units	Write masses and capacities using equivalent metric measures P.521
		11.3 – Length in Customary Units	Write lengths using equivalent customary measures P.527
		11.4 – Weight in Customary Units	Write weights using equivalent customary measures P.533
		11.5 – Capacity in Customary Units	Write capacities using equivalent customary measures P.539
		11.6 – Make and Interpret Line Plots	Make line plots and use them to solve problems P.545
		11.7 – Problem Solving: Measurement	Solve multi-step word problems involving units of measure P.551
		Performance Task/Activity	P. 557/558
		Chapter 11 Review/textbook	Completed in class
		Chapter 11 Test	In class/online
		STEAM Performance Task:8-11	P.567
March	Chapter 12: Patterns in the Coordinate Plane	Chapter Opener	Review of previous content
		12.1 – Plot Points in the coordinate Plane	Identify and plot points in the coordinate plane P.571
		12.2 – Relate Points in a	Relate points and find distances in the

		Coordinate Plane	coordinate plane P.577
		12.3 – Draw Polygons in a Coordinate Plane	Draw and identify polygons in a coordinate plane P.583
		12.4 – Graph Data	Graph and interpret data in a coordinate plane P.589
		12.5 – Make and Interpret Line Graphs	Make and interpret line graphs P.595
		12.6 – Numerical Patterns	Create and describe numerical patterns P.601
		12.7 – Graph and Analyze Relationships	Use a graph to describe the relationship between two numerical patterns P.607
		Performance Task/Activity	P. 613/614
		Chapter 12 Review/textbook	Completed in class
		Chapter 12 Test	In class/online
April	Chapter 13: Understand volume	Chapter Opener	Review of previous content
		13.1 – Understand the concept of volume	Count to find volume of solid figures P.621
		13.2 – Find the Volumes of Right rectangular Prisms	Find volume of right rectangular prisms P.627
		13.3 – Apply the Volume Formula	Use a formula to find the volumes of rectangular prisms P.633
		13.4 – Find Unknown Dimensions	Find the unknown dimensions of rectangular prisms P.639
		13.5 – Find Volume of Composite Figures	Find volumes of composite figures P.645
		Performance Task/Activity	P. 651/652
		Chapter 13 Review/textbook	Completed in class
		Chapter 13 Test	In class/online
April	Chapter 14: Classify two-Dimensional Shapes	Chapter Opener	Review of previous content
		14.1 – Classify Triangles	Classify triangles by their angles and by their sides P. 659
		14.2 – Classify Quadrilaterals	Classify quadrilaterals by their angles and by their sides P.665
		14.3 – Relate Quadrilaterals	Understand the hierarchy of quadrilaterals P.671
		Performance Task/Activity	P. 677/678
		Chapter 14 Review/textbook	Completed in class
		Chapter 14 Test	In class/online
		STEAM Performance Task: 12-14	P.685
May	MAP	Union wide MAP testing	
	NYS Testing	Math state test based on Common Core curriculum	
May	Fractions	Comparing and ordering fractions and decimals	Text – Standards practice book
May	Factor trees, modeling percents, relating decimals and	Find prime factorization using a factor tree. Convert between fractions, decimals and fractions.	Text – Standards practice book

	percents, fractions decimals and percents		
May	Divide fractions by a whole number	Divide a fraction by a whole number	Text – Standards practice book
May	Ratios, Rates and Understanding Integers	Understand and use rates and ratios. Understand the concept of integers and represent them on a number line.	Text – Standards practice book
May	Algebra - Write and evaluate expressions and understand inequalities	Write and evaluate expressions and understand inequalities and use them to solve problems	Text – Standards practice book
May	Polygons on Coordinate Grid, area of parallelogram, median, mode, and average	Draw polygons on coordinate grid; find area of parallelogram; find median, mode, and average.	Text – Standards practice book
May	Histograms	Histograms – use histograms to organize data and analyze them	Text – Standards practice book
June	Review for Finals		
June	Finals	Test – Topics covered in May	