**East Meadow School District**

**Grade 6 - Math Curriculum Realignment - 2011**

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**Sixth Grade Math Curriculum Realignment**

**2011 – 2012**

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**Abstract**

**Sixth Grade Math Curriculum Realignment**

The New York State Math Assessment is administered to students in sixth grade every spring. The sixth grade math teachers from both Woodland Middle School and Clarke Middle School analyzed the BOCES Gap reports that showed areas of weaknesses and strengths on particular content-based questions for the regular education students. The teachers examined previous pacing calendars as well as the Core Curriculum National Math Standards and discussed collaboratively important changes that needed to be addressed for the 2011 - 2012 school year. The sixth grade math pacing calendar was adjusted to allow more teaching time scheduled for the more difficult concepts and less time scheduled for the easier concepts. The New York State Math Standards, Performance Indicators and Core Curriculum National Math Standards were aligned within the pacing calendar. In addition, various online and text resources are available to both the students and teachers. The use of the shared pacing calendar between the two middle schools within the district will help standardize curriculum and control the timing through benchmark assessments.

**Rationale**

**Sixth Grade Math Curriculum Realignment**

The New York State Math Assessment is administered to sixth students every spring. The math teachers will analyze the BOCES Gap reports that depict areas of weaknesses and strengths on particular content-based questions for the students. The pacing calendar will ensure that all New York State standards and performance indicators will be addressed in which more teaching time will be scheduled for the more difficult concepts and less teaching time for the easier concepts. The New York State Math Standards and Performance Indicators will also be aligned with resources that will be available to the students.

East Meadow School District will be adopting the Core Curriculum National Math Standards beginning 2012 – 2013 school year. The math teachers will incorporate Core Curriculum National Math Standards in conjunction with the current New York State Math Standards to ensure student exposure to the new skills and concepts.

**Websites for the Sixth Grade Curriculum**

**Unit 1**

**Smart Tech- properties**

<http://exchange.smarttech.com/search.html?q=+Commutative+Property#page=2>

[**Oswego City School District**](http://www.oswego.org)**-Place value**

http://www.studyzone.org/mtestprep/math8/e/trillion6l.cfm

Review fifth grade concepts see handout material

**Unit 2**

**Smart Tech -Compare and order intergers**

<http://exchange.smarttech.com/search.html?q=compare%20and%20order%20integers>

**Amby’s math resource-Prime factorization**

<http://amby.com/educate/math/2-1_fact.html>

**Mathh Goodies-Factor tree**

http://www.mathgoodies.com/factors/factor\_tree.asp

**Unit3**

**Smart Tech -exponents**

<http://exchange.smarttech.com/search.html?q=%22exponents%22>

**Order of operations Video song**

<http://www1.teachertube.com/viewVideo.php?video_id=63473>

**Smart Tech- pemdas**

http://exchange.smarttech.com/search.html?q=pemdas%22&subject=All+subjects&grade=All+grades&region=en\_US

**HelpingwithMath.com-Prime and composite**

http://www.helpingwithmath.com/resources/games/prime/prime01.html

**Unit 4**

**IXL -parts of a circle**<http://www.ixl.com/math/grade-6/parts-of-a-circle>

**FunBrian.com –what’s the point?**

[http://www.funbrain.com/cgi-bin/co.cgi?A1=c&A2=1&A3=0&A4=0&A5=Oz\*bXq)&A6=[-2][3](http://www.funbrain.com/cgi-bin/co.cgi?A1=c&A2=1&A3=0&A4=0&A5=Oz*bXq)&A6=%5b-2%5d%5b3)]

**Unit 5**

**Smart Tech- verbal expression**<http://exchange.smarttech.com/search.html?q=%22Verbal%20Phrases%22>

**IXL-Solving inequalities**

<http://www.ixl.com/math/grade-6/solve-one-step-linear-inequalities>

**Unit 6**

MathPlayground -comparing fractions

<http://www.mathplayground.com/howto_comparefractions.html>

**IXL-GCF LCM**

<http://www.ixl.com/math/grade-6/greatest-common-factor-word-problems>

**TopMarks- equivalent fractions**

<http://www.topmarks.co.uk/Flash.aspx?f=Fractionsv7>

**Fun Brain- equivalent fractions**

<http://www.funbrain.com/fract/index.html>

**IXL-Multiply fractions**

<http://www.ixl.com/math/grade-5/multiply-two-fractions>

**IXL-Divide Fractions**

<http://www.ixl.com/math/grade-5/divide-fractions>

**Unit 7**

**Smart Tech-Ratios and Proportions**

<http://exchange.smarttech.com/search.html?q=identify+ratios>

**Wisc-OnlineRatio and Proportions**

http://www.wisc-online.com/objects/ViewObject.aspx?ID=GEM2004

**Unit 8**

**Smart Tech- word proplems rate and proportion and setting up a proportion**

<http://exchange.smarttech.com/search.html?q=simplify+proportions&subject=All+subjects&grade=All+grades&region=en_US>

**Smart Tech- converting rates**

<http://exchange.smarttech.com/search.html?q=rate+and+ratio&subject=All+subjects&grade=All+grades&region=en_US>

**Quia-Mean median mode range game**

<http://www.quia.com/rr/51667.html>

**Unit 9**

**IXL adding /subtracting fractions**

<http://www.ixl.com/math/grade-6/add-and-subtract-fractions-with-unlike-denominators-word-problems>

**Smart Tech-Add/ subtract fractions**

<http://exchange.smarttech.com/search.html?q=add+subtract+fractions>

**Unit 10**

**IXL-Multiply fractions and mixed numbers**

<http://www.ixl.com/math/grade-5/multiply-a-mixed-number-by-a-fraction>

**IXL- divide fractions and mixed numbers**

<http://www.ixl.com/math/grade-5/divide-fractions-and-mixed-numbers>

**Unit 11**

**Smart tech- percent to fraction**

<http://exchange.smarttech.com/search.html?q=%22percentages%22>

**Smart tech percent to fraction, decimal**

<http://exchange.smarttech.com/search.html?q=percent+to+fraction&subject=All+subjects&grade=All+grades&region=en_US>

**Smart Tech percent of a number utilizing decimal equivalence**

<http://exchange.smarttech.com/search.html?q=decimal+equivalence&subject=All+subjects&grade=All+grades&region=en_US>

**Unit 12**

**IXL congruent and similar figures**

<http://www.ixl.com/math/grade-6>

**SmartTech- congruent and similar figures**

http://exchange.smarttech.com/search.html?q=congruent+and+similar+figures&subject=All+subjects&grade=All+grades&region=en\_US

**Smart tech-Area of a triangle**

<http://exchange.smarttech.com/search.html?q=area+of+a+triangle&subject=All+subjects&grade=All+grades&region=en_US>

**Math expression-Area of a triangle**

http://www.mathexpression.com/area-of-a-triangle.html

**Unit 13**

**IXL- area of circle**

http://www.ixl.com/math/grade-6

**Unit 14**

**Smart Tech-probability**

http://exchange.smarttech.com/search.html?q=probability&subject=All+subjects&grade=All+grades&region=en\_US

**Unit 15**

**Shape and Space-Area of quadrilaterals**

http://staff.argyll.epsb.ca/jreed/math8/strand3/3203.htm

**IXL-Graphs**

http://www.ixl.com/math/grade-6

Smart Tech- circumference

http://exchange.smarttech.com/search.html?q=circumference&subject=All+subjects&grade=All+grades&region=en\_US

**Unit 16**

**Smart Tech- read and interpret line graph**

<http://exchange.smarttech.com/details.html?id=7c4214b3-3602-4453-bd2f-56beff653376>

**IXL graphs**

http://www.ixl.com/math/grade-6/interpret-line-graphs

**IXL-histograms**

http://www.ixl.com/math/grade-6/create-histograms