

## Curriculum Mapping and Pacing Guide

Grade/Course

Math 7 Grading Period

1<sup>st</sup> 9-weeks

(44 days)

Time Frame	Unit/SOL	SOL #	Resources	Assessments	Notes
3 weeks	<ul style="list-style-type: none"> <li>• a) Model addition, subtraction, multiplication, and division of integers</li> <li>• b) Add, subtract, multiply, and divide integers</li> </ul>	7.3a, b * No calculator	Curriculum framework pg. 6, IA, IXL, Study Island, You tube videos- <a href="http://www.youtube.com/watch?v=16EOHKcZOg">www.?v=16EOHKcZOg</a> , <a href="http://www.youtube.com/watch?v=RcTaKAKm/OI">www.youtube.com/watch?v=RcTaKAKm/OI</a> , teacher worksheets, Interactive Notebook, Scope and Sequence, Math drills worksheets, Ed helper, Stone Hill web site, Algebra Tiles, Number lines	Teacher made Interactive Achievement Va. Mathematics Item Bank Daily warm up and quizzes Project based On line assessments AAA Math IXL Study Island	Students need to understand the concept behind adding, subtracting, multiplying, and dividing integers through models and develop rules based on these models
1 Week	Apply the following properties of operations with real numbers: <ol style="list-style-type: none"> <li>a) The commutative and associative properties for addition and multiplication</li> <li>b) The distribute property</li> <li>c) The additive and multiplicative identity properties</li> <li>d) The additive and multiplicative inverse properties</li> <li>e) The multiplicative property of zero</li> </ol>	7.16 a-e	Curriculum framework pgs. 26-27, IA, IXL, Study Island, You tube videos- <a href="http://www.youtube.com/watch?v=M3IVR1btIzE">www.youtube.com/watch?v=M3IVR1btIzE</a> , <a href="http://tinyurl.com/o8tvulh">http://tinyurl.com/o8tvulh</a> , teacher worksheets, Interactive Notebook, Scope and Sequence, Math drills worksheets, Ed helper, Stone Hill notes web site, Algebra Readiness Companion	Teacher made Interactive Achievement Va. Mathematics Item Bank Daily warm up and quizzes Project based On line assessments AAA Math IXL Study Island	<b>Properties are continued throughout the year and used in many math situations</b>
2 weeks	7.1* a) Investigate and describe the concept of negative exponents for powers of ten b) Determine scientific notation for numbers greater than zero c) Compare and order fractions, decimals, percents, and numbers written in scientific notation d) Determine square roots e) Identify and describe absolute value for rational numbers	7.1* No calculator	Curriculum framework pgs. 2-3, IA, IXL, Study Island, You tube videos- <a href="http://www.youtube.com/watch?v=PZDgOdjUtE">www.youtube.com/watch?v=PZDgOdjUtE</a> , <a href="http://tinyurl.com/q86jyh">http:// tinyurl.com/q86jyh</a> , <a href="http://www.youtube.com/watch?v=Ymcf14wC9Ck">www.youtube.com/watch?v=Ymcf14wC9Ck</a> , <a href="http://www.youtube.com/watch?v=WwmJ5nMmIjgQ">www.youtube.com/watch?v=WwmJ5nMmIjgQ</a> , <a href="http://www.bvps.org/mfischer/Videos.htm">www.bvps.org/mfischer/Videos.htm</a> , Teacher worksheets, Interactive Notebook, Scope and Sequence, Math drills worksheets, Ed helper, Stone Hill notes web site, Doe Algebra Readiness Companion, Comparison tiles	Teacher made Interactive Achievement Va. Mathematics Item Bank Converting Project On line assessments AAA Math IXL Study Island Va. Bank items	<b>Some sixth grade skills will have to gone over if there are gaps in what they know</b>

2014-2015

1 week	7.7 Compare and contrast the following quadrilaterals based on properties: parallelogram, rectangle, square, rhombus , and trapezoid	7.7	Curriculum framework pg. 15, <a href="http://tinyurl.com/newvjhq">http://tinyurl.com/newvjhq</a> , <a href="http://tinyurl.com/pjf4abc">http://tinyurl.com/pjf4abc</a> Teacher worksheets, Interactive Achievement, Interactive Notes, Study Island, IXL. AAA, Ed Helper, Stone Hill Notes, Doe Algebra Readiness Companion , Project based, Sort activities	Teacher made Project On line assessments, IA Virginia Bank items Sorting activities, Hands on activities Study Island AAA math Geometry on line	Hands on activities with this skill
--------	--	-----	---	---	-------------------------------------

**Cumulative Review for First Nine Weeks Test ( all Objectives)**  
**Mid point test after objective 7.16**

**Grade/Course: Math 7 Grading Period: 2nd 9-weeks (45 days)**

Time Frame	Unit/SOL	SOL #	Resources	Assessments	Notes
2.5 weeks	Solve single –step and multistep practical problems, using proportional reasoning	7.4	Curriculum framework pgs. 7-8, IA, Study Island, AAA, Ed Helper, Virginia BANK Items, teacher made worksheets, Interactive Notes, You tube videos ( see attached) Scope and Sequence, Algebra Companion, Pre- Algebra Text – Glencoe, Workbook with text, Stone Hill Notes, Richmond County Web site, Ten Marks, Suffolk County Web site, IXL	Teacher made test, IA test, Virginia Bank Items, Study Island, Released test items, Test Nav ( ITT items), Project based , Quizzes from warm ups, IXL	Problems need to as real to life as possible so there is a connection. This skill will be used all year.
1 week	<ul style="list-style-type: none"> <li>Determine whether plane figures-quadrilaterals and traingles- are similar and write proportions to express the relationships between corresponding sides of similar figures</li> </ul>	7.6	Curriculum framework pg. 12, IA, Study Island, AAA, Ed Helper, Virginia Bank items, teacher made worksheets, Interactive Notes, You tube video ( see attached, Scope and Sequence, Algebra Companion, Pre- Algebra Text- Glencoe, Workbook with text, Stone Hill Notes, Suffolk County Web site, IXL	Teacher made test , IA test, Virginia Bank Items, Test Nav , Project based, Quizzes from warm ups, IXL	A project is done where they can see and made similar figures
1.5 weeks	Represent transformations (reflections, dilations, rotations, and translations) by graphing in the coordinate plane	7.8	Curriculum framework pg. 16, IA , Study Island, AAA, Ed Helper, Virginia Bank Items, teacher made worksheets, Interactive Notes, You tube ( see attached), Scope and Sequence, Algebra Companion, Pre- Algebra text- Glencoe, Workbook with text, Stone Hill Notes, Richmond County Web site, Ten Marks, Suffolk County Web site, On line activities, IXL	Teacher made test, IA test, Virginia Bank Items, Test Nav, Project based, Quizzes from warm ups, IXL	IXL gives them a lot of hands on with this skill
1 week	<ul style="list-style-type: none"> <li>Experimental probability and theoretical probability of an event</li> </ul>	7.9	Curriculum framework pg. 18, IA, Study Island, AAA, Ed Helper, Virginia Bank Items, teacher made worksheets, Interactive Notes, You Tube, Scope and Sequence, Algebra Companion, Pre- Algebra Text, Workbook with text, Stone Hill Notes, Richmond county web site, Ten Marks, Suffolk County Web site, Hands on activities	Teacher made test, IA test, Virginia Bank Items, Test Nav, Quizzes from warm up , IXL, Hands on activities, Scope and Sequence activities	Students do well with hands on activities with cards, dice, coins
1 week	Probability of compound events, using the Fundamental Counting Principle	7.10	Curriculum framework pg. 19, Study Island, AAA, Ed Helper, Virginia Bank Items, teacher made worksheets, Interactive Notes, You Tube, Scope and Sequence, Algebra Companion, Pre- Algebra Text, Workbook with text, Stone Hill Notes, Richmond county web site,	Teacher made test, IA test, Virginia Bank items, Test Nav, Quizzes from warm up, IXL, Hands on activities, Scope and Sequence projects	

2014-2015

			<b>Ten Marks, Suffolk County Web site, Hands on activities</b>		
	<b>Second Nine weeks test all objectives covered in first and second nine weeks</b>				

Time Frame	Unit/SOL	SOL #	Resources	Assessments	Notes
1.5 weeks	Construct and analyze histograms Compare and contrast histograms with other types of graphs presenting information from the same data set	7.11 a,b	Curriculum framework pgs. 20-21, IA, Virginia Bank Items, AAA, Ed Helper, teacher made worksheets, Using Science book to make a histogram, Scope and Sequence, Test Nav, Study Island, IXL, Ten Marks, Graphs on line, Pre- Algebra text book, Stone Hill Notes, Suffolk County Web site, Newspaper to make a histogram, You tube videos ( see attached)	Teacher made test, IA, IXL, Study Island, Virginia Bank Items, Scope and Sequence activities, Making a histogram of interest	Making a histogram from another course or of interest
1 week	<ul style="list-style-type: none"> <li>Describe and represent arithmetic and geometric sequences, using variable expressions</li> </ul>	7.2	<b>Curriculum framework pg. 4, IA, Virginia Bank Items, Ed Helper, teacher made worksheets, Scope and Sequence, Test Nav, Study Island, IXL, Ten Marks, Pre-Algebra text book, Stone Hill Notes, Suffolk County Web site, You tube videos</b>	Teacher made test, IA, Study Island, Virginia Bank Items, Scope and Sequence activities, Quizzes from warm ups	<b>List all terms that confuse them</b>
1.5 weeks	<ul style="list-style-type: none"> <li>Write verbal expressions as algebraic expressions and sentences as equations and vice versa</li> <li>Evaluate algebraic expressions for given replacement values of the variables</li> </ul>	7.13 a,b	<b>Curriculum framework pg.24, IA, Virginia Bank Items, Ed Helper, teacher made worksheets, Scope and Sequence, Test Nav, Study Island, IXL, Ten Marks, Pre- Algebra text book, Stone Hill Notes, Suffolk County Web site, You tube videos</b>	Teacher made test, IA, Study Island, Virginia Bank Items, Scope and Sequence activities, Quizzes from warm ups, Project based	Using strips that have to be glued to match
2.5 weeks	<b>Solve one-and two step linear equations in one variable Solve practical problems requiring the solution of one-and two-step linear equations</b>	7.14 a,b	<b>Curriculum framework pg. 25, IA, Virginia Bank Items, Ed Helper, Teacher made worksheets, Scope and Sequence, , Test Nav, Study Island, IXL, Ten Marks, Pre- Algebra text book. Workbook , Stone Hill Notes, Suffolk County Web site, You tube videos</b>	Teacher made test, IA, Study Island , Virginia Bank Items, Scope and Sequence activities, Quizzes from warm ups, Algebra Companion activities, Matching strips	<b>Use balancing mats for this skill</b>
1.5 weeks	Solve one step inequalities in one variable Graph solutions to inequalities on the number line	7.15 a,b	<b>Curriculum framework pg. 26, IA, Virginia Bank Items, Ed Helper, Teacher made worksheets, Scope and Sequence activities, Study Island, You tube videos</b>	Teacher made test, IA, Study Island, Virginia Bank Items, Scope and Sequence Activities, Quizzes from warm ups, Algebra Companion , On Line interactive	<b>Make a huge number line for the room and graph the inequalities, use sheet protectors and have students make their own</b>

Time Frame	Unit/SOL	SOL #	Resources	Assessments	Notes
1 week	<ul style="list-style-type: none"> <li>Represent relationships with tables, graphs, rules, and words</li> </ul>	7.12	Curriculum framework pg. 23, IA, Study Island, IXL, AAA, Scope and Sequence, Ten Marks, Pre- Algebra text book, Workbook, Interactive Notebook, Stone Hill Web site Notes, Suffolk Web site, Virginia Bank Items, Released Test Items, Test Nav, Matching strips	Teacher made test, IA, IXL, Study Island, Virginia Bank test Items, Mastering the Sol's worksheets, Quizzes from warm ups, Algebra Companion activities, You tube videos and songs	
2 weeks	<ul style="list-style-type: none"> <li>Describe volume and surface area of cylinders</li> <li>Solve practical problems involving the volume and surface area of rectangular prisms and cylinders</li> <li>Describe how changing one measured attribute affects its volume and surface area</li> </ul>	7.5 a-c	Curriculum framework pg. 10-11, IA, Study Island, IXL, AAA, Scope and Sequence, Ten Marks, Pre-Algebra text book, Workbook, Interactive Notebook, Stone Hill Web site notes, Suffolk Web site, Virginia Bank Items, Released Test Items, Test Nav, Hands on activities	Teacher made test, IA, Study Island, Virginia Bank test items, Mastering the Sol's Worksheets, Quizzes from warm ups, Algebra Companion activities, You tube videos, Wrapping presents	<b>Wrapping presents works well for this skill</b>
	SOL Review SOL Testing Enrichment Exam Review and Exam	ALL			SOL Review is divided up into unequal time. The percentage of time each strand is reviewed is based on the blueprint.

**The advanced class is taught all these skills and if there are any gaps from sixth grade they are filled in. Also many of the skills are enhanced to cover eighth grade curriculum.**