

Scope and Sequence

Subject/Title of Unit	Grade	6 Weeks	Estimated Time Frame (# of days)
Math Unit 6 – Moving On: Extending Algebra & Geometry	7	6	22 Days
TEKS/Student Expectations		Examples/Specifications:	
<p>7.3B: The student solves problems involving direct proportional relationships. The student is expected to estimate and find solutions to application problems involving proportional relationships such as similarity, scaling, unit costs, and related measurement units.</p> <p>7.6C; 7.6D: The student compares and classifies two- and three-dimensional figures using geometric vocabulary and properties. The student is expected to (C) use properties to classify three-dimensional figures, including pyramids, cones, prisms, and cylinders; and (D) use critical attributes to define similarity</p> <p>7.8A; 7.8C: The student uses geometry to model and describe the physical world. The student is expected to (A) sketch three-dimensional figures when given the top, side, and front views; and (C) use geometric concepts and properties to solve problems in fields such as art and architecture.</p> <p>7.13A: The student applies Grade 7 mathematics to solve problems connected to everyday experiences, investigations in other disciplines, and activities in and outside of school. The student is expected to identify and apply mathematics to everyday experiences, to activities in and outside of school, with other disciplines, and with other mathematical topics;</p> <p>7.14A: The student communicates about Grade 7 mathematics through informal and mathematical language, representations, and models. The student is expected to communicate mathematical ideas using language, efficient tools, appropriate units, and graphical, numerical, physical, or algebraic mathematical models; and</p> <p>8.1C: The student understands that different forms of numbers are appropriate for different situations. The student is expected to approximate (mentally and with calculators) the value of irrational numbers as they arise from problem situations (such as</p>		<p>Scaling Cartoons Constructing A Tetrahedral Kite</p>	

<p>pi and the square root of 2)</p> <p>8.8A: The student uses procedures to determine measures of three-dimensional figures. The student is expected to find lateral and total surface area of prisms, pyramids, and cylinders using concrete models and nets (two-dimensional models)</p> <p>8.9A: The student uses indirect measurement to solve problems. The student is expected to use the Pythagorean Theorem to solve real-life problems</p> <p>8.10B: The student describes how changes in dimensions affect linear, area, and volume measures. The student is expected to describe the resulting effect on volume when dimensions of a solid are changed proportionally.</p>	
<p>Language of Instruction:</p>	<p>Instructional Resources/Textbook Correlations:</p>
<ul style="list-style-type: none"> • Hypotenuse • Irrational number • Leg • Pythagorean Theorem • Surface area • Tetrahedron 	<p>Glencoe: Middle School Math Course 2 Chapter 13 (except 13-3)</p> <p>Glencoe Teaching Math with Manipulatives</p> <p>Glencoe MathScape Course 2 (ch 13: pp 150-153)</p> <p>Glencoe Interactive Classroom PowerPoint</p> <p>Rhonda Bailey's Mathematics by Design resources</p> <p>Charles A. Dana Center Clarifying Lessons & Activities</p> <p>Marilyn Burns Thinking Mathematically</p>
	<p>Weblinks/Other Resources:</p>

Dinah Zike's Foldables
 Hotmath.com homework help
 Big Jim's Tangy Tunes
 Middle School Math with Pizzazz!
 Locally-Developed Materials
 REAL Careers Video Series
 www.thefutureschannel.com
 eInstruction clicker system
 Webccat
 Step Up To TAKS (Gail Fuller)
 Tx.msmath2.com resources: Vocabulary Puzzlemaker, Letters Home (Sp & Eng), virtual tutor, real-life careers website links, games, diagnostic/placement tests, chapter readiness quizzes, chapter tests, Animations for various concepts, interactive vocabulary review
 Bingo Games
 Bosworth: Pythagoras Research
 Creamer: *Donald in Mathemagic Land* DVD
 Target Vocabulary Pictures

Evaluation/External Assessment/Local Assessment:

Best Instruction Timeline:

Final Exam

Days 1-10: Chapter 13
 Days 11-14: Scaling Cartoons
 Days 15-18: Constructing A Tetrahedral Kite
 Days 19-22: Year-End Exam