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Lesson	Quest	Standard	VSC Code	Objectives
Lessons 1, 2 Finding Perimeter	How can you find the distance around (perimeter) a planned castle?	**Standard 3.0** Knowledge of Measurement	4.3.C.1.a	• Determine perimeter
		Standard 2.0 Knowledge of Geometry	3.2.A.1.b 3.2.A.1.c	• Identify or describe polygons • Identify or describe quadrilaterals
		Standard 6.0 Knowledge of Number Relationships and Computation/Arithmetic	2.6.C.1.a	• Demonstrate proficiency with addition and subtraction basic facts using a variety of strategies
		Standard 7.0 Processes of Mathematics	4.7.C.1.b 4.7.C.1.c 4.7.C.1.d 4.7.D.1.c	• Express mathematical ideas orally • Explain mathematically ideas in written form • Express solutions using concrete materials • Identify mathematical concepts in relationship to life
Lessons 3, 4 Measuring With a Ruler	How can you find distances on a map using a ruler and a map scale?	**Standard 3.0** Knowledge of Measurement	4.3.A.1.a 4.3.B.1.a	• Estimate and determine length and height • Select and use appropriate tools and units
		Standard 6.0 Knowledge of Number Relationships and Computation/Arithmetic	2.6.C.1.a	• Demonstrate proficiency with addition and subtraction basic facts using a variety of strategies.
		Standard 7.0 Processes of Mathematics	4.7.A.1.a 4.7.A.1.c 4.7.A.1.d 4.7.C.1.b 4.7.C.1.c 4.7.C.1.d	• Identify the question in the problem • Make a plan to solve a problem • Apply a strategy, i.e., draw a picture, guess and check, finding a pattern, writing an equation • Express mathematical ideas orally • Explain mathematically ideas in written form • Express solutions using concrete materials

			4.7.D.1.c	• Identify mathematical concepts in relationship to life
Lessons 5, 6 2-Dimensional Net to 3-Dimensional Figure	How can you recognize if a flat shape can be folded into a solid figure?	**Standard 2.0** Knowledge of Geometry **Standard 6.0** Knowledge of Number Relationships and Computation/Arithmetic **Standard 7.0** Processes of Mathematics	4.2.B.1.a 4.2.B.1.b 4.2.B.2.a 3.2.A.1.b 3.2.A.1.c 3.2.B.1.a 2.6.C.1.a 4.7.C.1.b 4.7.C.1.c 4.7.C.1.d	• Identify cones, cylinders, prisms, and pyramids • Describe solid geometric figures by the number of edges, faces, or vertices • Compare a plane figure to surfaces of solid geometric figure • Identify or describe polygons • Identify or describe quadrilaterals • Identify and describe cubes, rectangular prisms, and triangular prisms • Demonstrate proficiency with addition and subtraction basic facts using a variety of strategies. • Express mathematical ideas orally • Explain mathematically ideas in written form • Express solutions using concrete materials
Lessons 7, 8 Movement of a Figure or Object	How can you describe the movement of a shape or object?	**Standard 2.0** Knowledge of Geometry **Standard 6.0** Knowledge of Number Relationships and Computation/Arithmetic **Standard 7.0** Processes of Mathematics	4.2.E.1.a 3.2.A.1.b 3.2.A.1.c 2.6.C.1.a 4.7.C.1.b 4.7.C.1.c 4.7.C.1.d	• Identify and describe the results of translations, reflections, and rotations • Identify or describe polygons • Identify or describe quadrilaterals • Demonstrate proficiency with addition and subtraction basic facts using a variety of strategies. • Express mathematical ideas orally • Explain mathematically ideas in written form • Express solutions using concrete materials

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Lessons 9, 10 Tangram Transformations	How can you create new shapes by combining shapes?	**Standard 2.0** Knowledge of Geometry **Standard 6.0** Knowledge of Number Relationships and Computation/Arithmetic **Standard 7.0** Processes of Mathematics	4.2.E.1.a 4.2.D.1.a 3.2.A.1.b 2.6.C.1.a . 4.7.C.1.b 4.7.C.1.c 4.7.C.1.d	• Identify and describe the results of translations, reflections, and rotations • Identify and describe geometric figures as congruent • Identify or describe polygons • Demonstrate proficiency with addition and subtraction basic facts using a variety of strategies. • Express mathematical ideas orally • Explain mathematically ideas in written form • Express solutions using concrete materials
Lessons 11, 12 Benchmarks to Measure Lengths	How can you use familiar benchmarks to estimate sizes?	**Standard 3.0** Knowledge of Measurement **Standard 6.0** Knowledge of Number Relationships and Computation/Arithmetic **Standard 7.0** Processes of Mathematics	4.3.A.1.a 4.3.B.1.a 2.6.C.1.a 4.7.C.1.b 4.7.C.1.c 4.7.C.1.d	• Estimate and determine length and height • Select and use appropriate tools and units • Demonstrate proficiency with addition and subtraction basic facts using a variety of strategies. • Express mathematical ideas orally • Explain mathematically ideas in written form • Express solutions using concrete materials
Lessons 13, 14 Calculating the Area of a Rectangle	How can you quickly figure out the number of tiles you need to fill an area?	**Standard 3.0** Knowledge of Measurement **Standard 6.0** Knowledge of Number Relationships and Computation/Arithmetic	4.3.C.1.b 3.6.C.1.f 2.6.C.1.a	• Determine area • Represent multiplication and division basic facts using number sentences, pictures, and drawings • Demonstrate proficiency with addition and

		Standard 7.0 Processes of Mathematics	4.7.A.1.d 4.7.C.1.b 4.7.C.1.c 4.7.C.1.d	subtraction basic facts using a variety of strategies. • Apply a strategy, i.e., draw a picture, guess and check, finding a pattern, writing an equation • Express mathematical ideas orally • Explain mathematically ideas in written form • Express solutions using concrete materials
Lessons 15, 16 Congruent Figures	How can you create congruent shapes with tangram pieces?	**Standard 2.0** Knowledge of Geometry **Standard 6.0** Knowledge of Number Relationships and Computation/Arithmetic **Standard 7.0** Processes of Mathematics	5.2.D.1.a 4.2.E.1.a 4.2.D.1.a 3.2.A.1.b 2.6.C.1.a 4.7.C.1.b 4.7.C.1.c 4.7.C.1.d	• Identify or describe geometric figures as similar • Identify and describe the results of translations, reflections, and rotations • Identify and describe geometric figures as congruent • Identify or describe polygons • Demonstrate proficiency with addition and subtraction basic facts using a variety of strategies. • Express mathematical ideas orally • Explain mathematically ideas in written form • Express solutions using concrete materials
Lessons 17, 18 Regular Polygons	Why are regular polygons special?	**Standard 2.0** Knowledge of Geometry **Standard 6.0** Knowledge of Number Relationships and Computation/Arithmetic **Standard 7.0** Processes of Mathematics	3.2.A.1.b 3.2.A.1.c 2.6.C.1.a 4.7.C.1.b 4.7.C.1.c 4.7.C.1.d	• Identify or describe polygons • Identify or describe quadrilaterals • Demonstrate proficiency with addition and subtraction basic facts using a variety of strategies. • Express mathematical ideas orally • Explain mathematically ideas in written form • Express solutions using concrete materials

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Lessons 19, 20 Perimeter in Metric Units	What are the perimeters of the tangram pieces?	**Standard 3.0** Knowledge of Measurement **Standard 2.0** Knowledge of Geometry **Standard 6.0** Knowledge of Number Relationships and Computation/Arithmetic **Standard 7.0** Processes of Mathematics	4.3.A.1.a 4.3.B.1.a 4.3.C.1.a 3.2.A.1.b 3.2.A.1.c 2.6.C.1.a 4.7.C.1.b 4.7.C.1.c 4.7.C.1.d 4.7.D.1.c	• Estimate and determine length and height • Select and use appropriate tools and units • Determine perimeter • Identify or describe polygons • Identify or describe quadrilaterals • Demonstrate proficiency with addition and subtraction basic facts using a variety of strategies • Express mathematical ideas orally • Explain mathematically ideas in written form • Express solutions using concrete materials • Identify mathematical concepts in relationship to life
Lessons 21, 22 Looking at Area as a Pattern	Do all polygons with the same area look the same?	**Standard 3.0** Knowledge of Measurement **Standard 6.0** Knowledge of Number Relationships and Computation/Arithmetic **Standard 7.0** Processes of Mathematics	4.3.C.1.a 4.3.C.1.b 3.2.A.1.b 3.2.A.1.c 3.6.C.1.f 4.7.C.1.b 4.7.C.1.c 4.7.C.1.d	• Determine perimeter • Determine area • Identify or describe polygons • Identify or describe quadrilaterals • Represent multiplication and division basic facts using number sentences, pictures, and drawings • Express mathematical ideas orally • Explain mathematically ideas in written form • Express solutions using concrete materials
Lessons 23, 24 Line Language	Can you name that line and angle?	**Standard 2.0** Knowledge of Geometry	5.2.A.1.a 5.2.C.1.a	• Identify and describe relationships of lines and line segments in geometric figures or pictures • Identify, describe, and draw angles, parallel line segments, and perpendicular line segments

		Standard 3.0 Knowledge of Measurement **Standard 6.0** Knowledge of Number Relationships and Computation/Arithmetic **Standard 7.0** Processes of Mathematics	4.2.A.1.a 5.3.B.2.a 4.3.A.1.a 4.3.B.1.a 3.6.C.1.f 4.7.C.1.b 4.7.C.1.c 4.7.C.1.d	• Identify properties of angles using manipulatives and pictures • Measure a single angle and angles in regular polygons • Estimate and determine length and height • Select and use appropriate tools and units • Represent multiplication and division basic facts using number sentences, pictures, and drawings • Express mathematical ideas orally • Explain mathematically ideas in written form • Express solutions using concrete materials
Lessons 25, 26 Measuring Angles with a Protractor	How can you use a protractor to measure an angle?	**Standard 2.0** Knowledge of Geometry **Standard 3.0** Knowledge of Measurement **Standard 6.0** Knowledge of Number Relationships and Computation/Arithmetic **Standard 7.0** Processes of Mathematics	5.2.C.1.a 4.2.A.1.a 5.3.B.2.a 4.3.B.1.a 2.6.C.1.a 4.7.C.1.b 4.7.C.1.c 4.7.C.1.d 4.7.D.1.c	• Identify, describe, and draw angles, parallel line segments, and perpendicular line segments • Identify properties of angles using manipulatives and pictures • Measure a single angle and angles in regular polygons • Select and use appropriate tools and units • Demonstrate proficiency with addition and subtraction basic facts using a variety of strategies • Express mathematical ideas orally • Explain mathematically ideas in written form • Express solutions using concrete materials • Identify mathematical concepts in relationship to life

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Lessons 27, 28 Two and Three Dimensional Shapes	What shapes make up familiar three-dimensional shapes?	**Standard 2.0** Knowledge of Geometry	5.2.B.2.a 5.2.B.1.a 5.2.B.1.b 5.2.B.2.a 4.2.B.1.a	• Compare a plane figure to faces of solid geometric figure • Identify and classify pyramids and prisms by the number of edges, faces, or vertices • Identify and classify pyramids and prisms by the base • Compare a plane figure to faces of solid geometric figure • Identify cones, cylinders, prisms, and pyramids
		Standard 6.0 Knowledge of Number Relationships and Computation/Arithmetic	3.6.C.1.f	• Represent multiplication and division basic facts using number sentences, pictures, and drawings
		Standard 7.0 Processes of Mathematics	4.7.C.1.b 4.7.C.1.c 4.7.C.1.d 4.7.D.1.c	• Express mathematical ideas orally • Explain mathematically ideas in written form • Express solutions using concrete materials • Identify mathematical concepts in relationship to life
Lessons 29, 30 Transformations	What does a picture look like in a mirror?	**Standard 2.0** Knowledge of Geometry	4.2.E.1.a 3.2.A.1.b 3.2.A.1.c	• Identify and describe the results of translations, reflections, and rotations • Identify or describe polygons • Identify or describe quadrilaterals
		Standard 6.0 Knowledge of Number Relationships and Computation/Arithmetic	2.6.C.1.a	• Demonstrate proficiency with addition and subtraction basic facts using a variety of strategies
		Standard 7.0 Processes of Mathematics	4.7.C.1.b 4.7.C.1.c 4.7.C.1.d	• Express mathematical ideas orally • Explain mathematically ideas in written form • Express solutions using concrete materials

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Lessons 31, 32 Estimate and Compare Weights	How much does a knight weigh when he is fully armed?	**Standard 3.0** Knowledge of Measurement **Standard 6.0** Knowledge of Number Relationships and Computation/Arithmetic **Standard 7.0** Processes of Mathematics	4.2.A.1.b 4.2.C.2.c 2.6.C.1.a 4.7.C.1.b 4.7.C.1.c 4.7.C.1.d 4.7.D.1.c	• Estimate and determine weight or mass • Determine equivalent units of capacity and weight within the same system • Demonstrate proficiency with addition and subtraction basic facts using a variety of strategies • Express mathematical ideas orally • Explain mathematically ideas in written form • Express solutions using concrete materials • Identify mathematical concepts in relationship to life
Lessons 33, 34 Congruency	How can you create congruent shapes with tangram puzzle?	**Standard 2.0** Knowledge of Geometry **Standard 3.0** Knowledge of Measurement **Standard 6.0** Knowledge of Number Relationships and Computation/Arithmetic **Standard 7.0** Processes of Mathematics	5.2.D.1.a 4.2.E.1.a 4.2.D.1.a 3.2.A.1.b 4.3.C.1.b 2.6.C.1.a 4.7.C.1.b 4.7.C.1.c 4.7.C.1.d	• Identify or describe geometric figures as similar • Identify and describe the results of translations, reflections, and rotations • Identify and describe geometric figures as congruent • Identify or describe polygons • Determine area • Demonstrate proficiency with addition and subtraction basic facts using a variety of strategies. • Express mathematical ideas orally • Explain mathematically ideas in written form • Express solutions using concrete materials
Lessons 35, 36 Symmetry	How can you find the number of lines of	**Standard 2.0** Knowledge of Geometry	3.2.E.2.a	• Identify and describe symmetry

	symmetry in a figure?	**Standard 6.0** Knowledge of Number Relationships and Computation/Arithmetic **Standard 7.0** Processes of Mathematics	2.6.C.1.a 4.7.C.1.b 4.7.C.1.c 4.7.C.1.d 4.7.D.1.c	• Demonstrate proficiency with addition and subtraction basic facts using a variety of strategies. • Express mathematical ideas orally • Explain mathematically ideas in written form • Express solutions using concrete materials • Identify mathematical concepts in relationship to life
Lessons 37, 38 Tessellations	How can you cover an area without any spaces or openings (tessellate) with equilateral polygons?	**Standard 2.0** Knowledge of Geometry **Standard 6.0** Knowledge of Number Relationships and Computation/Arithmetic **Standard 7.0** Processes of Mathematics	4.2.E.1.a 4.2.D.1.a 3.2.A.1.b 3.6.C.1.f 4.7.C.1.b 4.7.C.1.c 4.7.C.1.d	• Identify and describe the results of translations, reflections, and rotations • Identify and describe geometric figures as congruent • Identify or describe polygons • Represent multiplication and division basic facts using number sentences, pictures, and drawings • Express mathematical ideas orally • Explain mathematically ideas in written form • Express solutions using concrete materials
Lessons 39, 40 Telling Time and Elapsed Time	How can you use your knowledge of minutes and hours to determine a future or past time?	**Standard 3.0** Knowledge of Measurement **Standard 6.0** Knowledge of Number Relationships and Computation/Arithmetic	4.3.C.1.c 4.3.C.2.b 3.3.A.1.b 2.6.C.1.a	• Determine start time, elapsed time, and end time • Determine equivalent units of time • Tell time in days, hours, minutes, and seconds • Demonstrate proficiency with addition and subtraction basic facts using a variety of strategies.

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		Standard 7.0 Processes of Mathematics	4.7.C.1.b 4.7.C.1.c 4.7.C.1.d 4.7.D.1.c	• Express mathematical ideas orally • Explain mathematically ideas in written form • Express solutions using concrete materials • Identify mathematical concepts in relationship to life