TEKS Cluster: Geometry and Measurement
TEKS Subcluster: Area/Volume
Student Expectations: 6.8(B), 6.8(C), 6.8(D)
Activities Summary: Students build on their use of formulas for area of rectangles and volume of rectangular prisms. They learn to find the area of triangles, parallelograms, and trapezoids using formulas. They also are introduced to the idea of "big B" and find volume of rectangular prisms. Activities may be organized and delivered in three topics: **Area**, **Volume**, and **Mixed Area and Volume**.

Activity Title Student Expectations	**Activity Topic**	**Type**			**Delivery**		
		new learning	intervention	practice	teacher-facilitated	small groups	stations
Area							
Triangles 6.8(B), 6.8(C)	**Understand the Formula for Area of Triangles** Students connect the formula for the area of a rectangle to the area of a triangle and use the formula to find area of triangles.	✓			✓		
Parallelograms 6.8(B), 6.8(C)	**Understand the Formula for Area of Parallelograms** Students connect the formula for the area of a rectangle to the area of a parallelogram and use the formula to find area of parallelograms.	✓			✓		
Trapezoids 6.8(B), 6.8(C)	**Understand the Formula for Area of Trapezoids** Students connect the formula for the area of a rectangle to the area of a trapezoid and use the formula to find area of trapezoids.	✓			✓		
Different Shapes, Different Formulas 6.8(C), 6.8(D)	**Use Formulas to Find Area** Students write problems, draw diagrams, write equations or formulas, and/or solve problems including missing dimensions.	✓	✓		✓		
Putting It All Together 6.8(C), 6.8(D)	**Area Practice** Students work collaboratively to solve area problem that include conversions.		✓	✓		✓	
Two Can Play This Game 6.8(C), 6.8(D)	**Estimate and Solve Area Problems** Students play a game where the winner is the person who estimates the closest to the actual area of a figure.			✓		✓	
Volume							
What Is Big B? 6.8(C), 6.8(D)	**Volume of Rectangular Prisms** Students are introduced to "Big B" in the volume formula and use the information to find big B and volume.	✓	✓		✓		
Mistakes and Missing Dimensions 6.8(C), 6.8(D)	**Volume of Rectangular Prisms** Students find and correct mistakes in volume problems.		✓	✓		✓	
Mixed Area and Volume							
Big Cat Sanctuary 6.8(C), 6.8(D)	**Area and Volume** Students use information from problem to fill in the blanks in the formula and find area or volume.			✓		✓	