TEKS Cluster: Measurement
TEKS Subcluster: Perimeter/Area
Student Expectations: 4.5(D), 4.5(C) – Connected SE: 4.8(B)
Activities Summary: Students are introduced to formulas for the first time and learn to use the *Grade 4 STAAR Mathematics Reference Sheet*. This subcluster is important because students will use formulas in every future math class throughout high school and potentially into college.

Activity Title Student Expectations	**Activity Topic**	**Type**			**Delivery**		
		new learning	intervention	practice	teacher-facilitated	small groups	stations
Understanding Perimeter Formulas 4.5(C), 4.5(D)	**Perimeter Formula** Students translate the process of finding perimeter to using a formula and use the formula to solve problems. This activity includes the opportunity for technical reading to understand how to use perimeter formulas.	✓	✓		✓		
Understanding the Area Formula for Rectangles 4.5(C), 4.5(D)	**Area Formula** Students translate the process of finding area to using a formula and use the formula to solve problems. This activity includes the opportunity for technical reading to understand how to use area formulas.	✓	✓		✓		
Mia's Tree House 4.5(D)	**Perimeter and Area** Students draw a diagram and write measurements, write the formula, fill it in, and solve. Problems include finding perimeter, area, and missing measurements. Scaffolding includes checking a perimeter or area box to remind students which they chose.		✓	✓		✓	
Which is it: Area or Perimeter? 4.5(D)	**Perimeter and Area** In this round robin activity, students choose area, perimeter, or both perimeter and area, write formula(s), fill in the formula(s), and solve problems. Area or perimeter isn't always the solution to the problem. Scaffolding includes checking a perimeter or area box to remind students which they chose.		✓	✓		✓	
In & Around 4.5(D), 4.8(B)	**Perimeter and Area** Students draw a figure and choose area or perimeter, write the formula, fill it in, and solve the problem. Some problems include conversions and conversions tables. Scaffolding includes checking a perimeter or area box to remind students which they chose.		✓	✓		✓	
Another Dimension 4.5(D)	**Perimeter and Area** In this challenge activity, students solve area and perimeter problems where the dimensions are given as numerical relationships, such as "The width is 12 feet. The length is 6 times the width."		✓	✓		✓	
Measurement Matters 4.5(D), 4.8(B)	**Length, Perimeter, Area, and Conversions** Students choose and solve length, perimeter, area, and conversions problems. Scaffolding includes checkboxes to remind students which they chose.		✓			✓	